



METARHIZIUM

plus *NOMURAEA* and *METARHIZIOPSIS*
[Hypocreales: Clavicipitaceae]

FULLY INDEXED

[INCLUDES 2387 ISOLATES]

USDA-ARS Biological Integrated Pest Management Research
Robert W. Holley Center for Agriculture and Health
538 Tower Road
Ithaca, New York 14853-2901

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ARSEF Collection Staff

Richard A. Humber, Curator

phone: [+1] 607-255-1276
fax: [+1] 607-255-1132
email: richard.humber@ars.usda.gov

Karen S. Hansen

phone: [+1] 607-255-1274
fax: [+1] 607-255-1132
email: arsef@cornell.edu

Micheal M. Wheeler

phone: [+1] 607-255-1274
fax: [+1] 607-255-1132
email: mmw5@cornell.edu

USDA-ARS Biological IPM Research Unit
Robert W. Holley Center for Agriculture & Health
538 Tower Road
Ithaca, New York 14853-2901, USA

IMPORTANT NOTE

Recent phylogenetically based reclassifications of fungal pathogens of invertebrates

Richard A. Humber

Insect Mycologist and Curator, ARSEF

UPDATED July 2011

Some seemingly dramatic and comparatively recent changes in the classification of a number of fungi may continue to cause confusion or a degree of discomfort to many of the clients of the cultures and informational resources provided by the ARSEF culture collection. This short treatment is an attempt to summarize some of these changes, the reasons for them, and to provide the essential references to the literature in which the changes are proposed.

As the Curator of the ARSEF collection I wish to assure you that these changes are appropriate, progressive, and necessary to modernize and to stabilize the systematics of the fungal pathogens affecting insects and other invertebrates, and I urge you to adopt them into your own thinking, teaching, and publications.

The identifications in the ARSEF catalogs (<http://www.ars.usda.gov/Main/docs.htm?docid=12125>) incorporate these new classifications as soon as we can confirm the correct new identifications of fungi and, where genera or species are being split on molecular grounds, to determine and to apply the correct new identifications.

General Reclassification of Fungi

The results of a global cooperative effort involving dozens of mycologists (including the curator of this collection) to reclassify the fungi according to phylogenetically sound principles based on the DNA sequence data for multiple genes has recently resulted in the publication of two monumentally important publications that completely rework mycological systematics. The earlier publication was a phylogenetic overview of virtually all fungi (James *et al.* 2006). The second publication (Hibbett *et al.* 2007) provided the necessary taxonomic readjustments that were indicated by the phylogenetic studies.

Microsporidia

Many mycologists and invertebrate pathologists are now aware that the Microsporidia have been proven beyond any reasonable doubt to be comparatively recent and highly derived endobiotic fungi. They are neither extremely ancient eukaryotes nor affiliated with protozoans as most textbooks indicate. None of this realignment to the fungi is being disputed by either microsporidiologists or phylogenetic mycologists. The rationale for this realignment is presented succinctly in James *et al.* (2006). These fascinating organisms connect to the fungal tree of life at the base of the nonflagellate fungi (among or near the fungi traditionally treated as the Zygomycota) but their exact affinities and nearest remain uncertain.

Zygomycota, Zygomycotina, Zygomycetes and Entomophthorales

The phylogenetic reclassification of fungi (Hibbett *et al.*, 2007) significantly modified the traditional view of the most ancestral nonflagellate fungi. The phylum Zygomycota, subphylum Zygomycotina, and class Zygomycetes disappeared in their widely understood sense to be replaced by the phylum Glomeromycota (for arbuscular mycorrhizal fungi) and a series of new subphyla not yet assigned to any phylum (because of the obviously polyphyletic nature of the zygomycetes as traditionally treated). The Entomophthorales is reclassified in the subphylum Entomophthoromycotina Humber (in Hibbett *et al.* 2007); the other new subphyla in this group are the Mucormycotina, Zoopagomycotina and Kicxellomycotina. Where there had been some question about whether *Basidiobolus* and its close relatives should be retained in the Entomophthorales or moved to a position closer to some of the blastocladialean watermolds, James *et al.* (2006) unequivocally retain *Basidiobolus* in an ancestral position in the Entomophthorales.

Despite the short-term frustration of needing to deal with fungi belonging to these groups that the familiar concepts of Zygomycota, Zygomycotina and Zygomycetes are now abandoned. Until such a time as the molecular studies clarify the overall relationships among these fungi and establish a new set of phyla, my practical advice to the clientele of the ARSEF culture collection is to continue to use these discontinued phylum, subphylum and class names since (1) their meanings remain unambiguous in terms of the fungi included, and (2) journals and other outlets may remain unwilling or unable for some time still to handle the concepts of new subphyla with unassigned status ('*incertae sedis*').

Entomopathogenic Ascomycetes and Associated Anamorphic (Conidial) States

Among all of the major taxonomic changes within the fungi that affect entomopathogenic fungi, the most dramatic and far-reaching involve the ascomycetes and their conidial (anamorphic) states classified among the pyrenomycetous fungi of the order Hypocreales. In one of the first major changes to be noted, those ascomycetous entomopathogens whose ascospores are produced in perithecia (nearly closed spherical to flask-like fruiting bodies) are now put in the class Sordariomycetes, a name based on a valid generic name, rather than in the historically familiar class Pyrenomycetes, a name based on the morphology of the fruiting body. The great majority of these fungi have long been recognized to belong in the family Clavicipitaceae (mostly in the genera *Cordyceps*, *Torrubiella* or *Hypocrella*). A major phylogenetic reclassification of the Clavicipitaceae (Sung *et al.* 2007; available free of charge at <http://www.studiesinmycology.org>) has split this family into three (Table 1), a long overdue major reworking of the taxonomy of *Cordyceps* and, subsequently, a reshuffling of anamorphic states among these families. This publication by Sung *et al.* (2007) is very long and complex since it includes a highly detailed phylogenetic analysis of these fungi as well as presenting the new taxonomy, descriptions of new families, genera, and species, and a very large number of new combinations (mostly segregating *Cordyceps* into their newly described segregate genera), and listing of the known or suspected anamorphic states associated with these taxa.

Note that Table 1 shows *Torrubiella* to be split between two families. This is an untenable position in a phylogenetically based classification that requires all taxa to represent monophyletic lineages. Future phylogenetic studies that will result in the reclassification of *Torrubiella* are obviously required. Also note that some anamorphic states with morphologies referable to *Hirsutella*, *Paecilomyces* and *Verticillium* (the latter two genera in their old senses from before recent phylogenetic reclassifications discussed below) may occur in more than one family; this underscores the need to regard anamorphic states as being named in form-genera defined only by their morphologies and similar modes of development rather than by phylogenetic relatedness.

Table 1. Summary of some major teleomorphic (sexual) and anamorphic (conidial) genera of Hypocreales pathogenic to invertebrates (Sung *et al.* 2007).

	FAMILY		
	Clavicipitaceae	Cordycipitaceae	Ophiocordycipitaceae
Teleomorphs:	<i>Hypocrella</i> , <i>Metacordyceps</i> , <i>Regiocrella</i> , <i>Torrubiella</i>	<i>Cordyceps</i> s.str., <i>Torrubiella</i>	<i>Ophiocordyceps</i> , <i>Elaphocordyceps</i>
Anamorphs:	<i>Aschersonia</i> , <i>Metarhizium</i> , <i>Nomuraea</i> , <i>Paecilomyces</i> -like ¹ , <i>Pochonia</i> , <i>Rotiferophthora</i> , <i>Verticillium</i> -like ²	<i>Beauveria</i> , <i>Engyodontium</i> , <i>Isaria</i> , <i>Lecanicillium</i> , <i>Mariannaea</i> -like, <i>Microhilum</i> , <i>Simplicillium</i>	<i>Haptocillium</i> , <i>Harposporium</i> , <i>Hirsutella</i> , <i>Hymenostilbe</i> , <i>Paraisaria</i> , <i>Purpureocillium</i> <i>Sorosporella</i> , <i>Syngliocladium</i> , <i>Tolyphocladium</i> , <i>Verticillium</i> -like ²

¹ Species formerly in *Paecilomyces* sect. *Isarioidea*, now excluded from *Paecilomyces* in the strict sense but also from *Isaria* (which now includes most entomogenous species transferred from *Paecilomyces*).

² Species formerly in *Verticillium* sect. *Prostrata*, now excluded from *Verticillium* in the strict sense but not yet reclassified in the segregate genera recognized by Zare and Gams (see below).

Table 2. Publications eliminating and reclassifying *Verticillium* section *Prostrata*

PART	AUTHORS	SUBJECT COVERED
1	Zare, Gams & Culham (2000)	ITS sequence analyses
2	Sung, Spatafora <i>et al.</i> (2001)	SSU, LSU rDNA sequence analyses
3	Gams, Zare (2001)	Generic reclassification
4	Zare, Gams (2001)	<i>Lecanicillium</i> and <i>Simplicillium</i> monograph
5	Zare, Gams, Evans (2001)	<i>Pochonia</i> , <i>Rotiferophthora</i> monograph
6	Zare, Gams (2001)	<i>Haptocillium</i> monograph

Table 3. Current phylogenetically based classification within Hypocreales of some species formerly classified in *Paecilomyces* sect. *Isarioidea* (following Luangsa-ard *et al.* 2005; Sung *et al.* 2007; Luangsa-ard *et al.* 2011)

FAMILY	GENUS	INCLUDED SPECIES
Clavicipitaceae	' <i>Paecilomyces</i> ' ¹	<i>carneus</i> , <i>marquandii</i>
Cordycipitaceae	<i>Isaria</i>	<i>amoenorosea</i> , <i>cateniannulata</i> , <i>catenobliqua</i> , <i>cicadae</i> , <i>coleopterora</i> , <i>farinosa</i> , <i>fumosorosea</i> , <i>ghanensis</i> , <i>tenuipes</i>
Ophiocordycipitaceae	<i>Purpureocillium</i>	<i>lilacinum</i> (<i>syn.</i> : <i>Paec. lilacinus</i>)

¹ No generic re-assignments have been made for these hypocrealean anamorphs that continue (for lack of better alternatives) to be treated provisionally as *Paecilomyces* species. The generic affinities of other excluded '*Paecilomyces*' species noted by Luangsa-ard *et al.* (2005) remain uncertain.

Phylogenetically based reclassification of *Verticillium* section *Prostrata* – The extensive, phylogenetically based reclassifications of conidial fungi that common pathogens of insects or other invertebrates began with the reclassification of *Verticillium* species. The venerable classification of this genus (Gams 1971) recognized the sections *Verticillium* and *Prostrata*. All species in *Verticillium* sect. *Verticillium*, which included the phytopathogens with well differentiated, erect conidiophores, are anamorphs of perithecial ascomycetes in the order Phyllachorales. The species in *Vert.* sect. *Prostrata*, however, were anamorphs attributable to the order Hypocreales (Sordariomycetes). Because the current systematics practices recognize monophyletic taxa, it was necessary to remove the species from *Verticillium* section *Prostrata* to other genera. This reclassification was done in six publications (Table 2) reflecting primarily the doctoral research of Rasoul Zare under the guidance of Walter Gams. Most entomopathogens from this group are now placed in *Lecanicillium*, a genus whose type species, *L. lecanii*, was also recognized to be a species complex recognized to include at least three species (*L. lecanii*, *L. muscarium*, and *L. longisporum*) and thus replacing the morphologically highly variable *Verticillium lecanii*.

Phylogenetically based reclassification of *Paecilomyces* section *Isarioidea* – The long-used taxonomy of *Paecilomyces* by Samson (1974) divided this genus into two sections, and with all entomopathogens treated in *Paecilomyces* sect. *Isarioidea*. The type species, *P. variotii* Bainier, and all species in *Paecilomyces* sect. *Paecilomyces* are anamorphic (conidial) states of cleistothelial ascomycetes in the Eurotiomycetes. In an exact parallel with the situation for the two sections of *Verticillium*, all species in *Paec.* sect. *Isarioidea* are anamorphic states of pyrenomycete ascomycetes in the order Hypocreales, mostly in the family Clavicipitaceae although the reclassification of that family by Sung *et al.* (2007) now disperses these former *Paecilomyces* species among three families (Table 3). The taxonomic revision of *Paecilomyces* section *Prostrata* began with the lectotypification and determination of the status of *Isaria* (Hodge *et al.* 2005), a genus long ago relegated to synonymy with *Paecilomyces*, and the formal conservation of the generic name *Isaria* (Gams *et al.* 2005). The next step was a phylogenetic study that confirmed the polyphyletic nature of *Paecilomyces* in the broad sense (Luangsa-ard *et al.* 2004), followed then by a formal reclassification (with new combinations) of most species from *Paec.* sect. *Isarioidea* into *Isaria* while several other species from this section were excluded from both *Paecilomyces* and *Isaria* and still await transfers into appropriate anamorphic genera (Table 3). Most recently, *Paec. lilacinus* was transferred to a new (as yet monotypic) genus in Ophiocordycipitaceae as *Purpureocillium lilacinum* (Luangsa-ard *et al.* 2011).

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ARS COLLECTION OF ENTOMOPATHOGENIC FUNGAL CULTURES

History and Purpose of the ARSEF Collection

The goal of the ARS Collection of Entomopathogenic Fungal Cultures (ARSEF) is to provide fundamental support for basic and applied research on the fungal pathogens of invertebrates. Since its establishment in the early 1970s, this collection has served as a general research resource for the isolation, collection, preservation, and distribution of fungal strains from insects, other arthropods, and nematodes. Emphasis has always been placed on acquiring and distributing strains under active study for use as potential biological control agents. Basic research associated with the collection includes fungal systematics, fungal cytology, pathobiology, and methodology for fungal cryopreservation. The culture collection and its associated collection of microscope slides and herbarium specimens provide invaluable support for taxonomic research on and the diagnoses of fungal pathogens of invertebrates. Identification services for specimens and cultures have always been available free of charge to any laboratories requesting them.

We strive to provide users with pure and accurately identified fungal cultures., and the taxonomies applied to the fungi in this collection are continuously updated to reflect their current accepted classifications. The curator of the collection welcomes all correspondence about nomenclatural or taxonomic changes or possible misidentifications involving any ARSEF strains.

The ARSEF collection began as Richard Soper's research collection in the USDA-ARS laboratory at the University of Maine (Orono; UMO) where its cultures were at initially designated by a UMO or RS prefix before adopting ARSEF in 1985. In 1978, the ARS Insect Pathology Research Unit relocated to Ithaca, NY, to work with the Boyce Thompson Institute (BTI) on the Cornell University campus. The Insect Pathology Research Unit became the Plant Protection Research Unit (PPRU) in 1985, and was renamed in 2008 as the Biological Integrated Pest Management Research Unit (BioIPM). The ARSEF collection moved from BTI in 1990 into the US Plant, Soil & Nutrition Laboratory which was rededicated in 2008 as the Robert W. Holley Center for Agriculture & Health to commemorate Dr. Holley's work there to complete the first sequencing of any nucleic acid; he received the 1968 Nobel Prize for Medicine or Physiology for this work.

BioIPM operates the ARSEF culture collection for the USDA Agricultural Research Service; the collection is not now and has never been owned or controlled by the Boyce Thompson Institute. ARSEF is one of the largest germplasm collections in the ARS, and is widely recognized for its active support of research on fungal pathogens of invertebrates. ARSEF and its associated herbarium are registered under the ARSEF acronym since 1985 with the World Federation of Culture Collections' World Data Center on Microorganisms and the International Association of Plant Taxonomists' *Index Herbariorum*, respectively.

From 1977 through 2008, all strains in the collection were preserved by immersion in liquid nitrogen. A program to lyophilize those isolates that could tolerate such was begun in the 1990's, and has expanded in scope and pace. At the end of 2008 the vast majority of the collection was consolidated in a single large nitrogen dewar in a new facility adjacent to the current building. Requests for cultures are filled with either actively growing cultures on appropriate media or, if available, as freeze-dried units.

Identifying and Acknowledging ARSEF Strains in Publications

We request that all publications using or referring to strains obtained from ARSEF acknowledge the U.S. Department of Agriculture, ARS Plant Protection Research Unit and state the ARSEF accession numbers of these strains. We would very greatly appreciate receiving reprints of all past, current, and future publications or even periodic notification about research in progress involving the use of ARSEF strains.

Accession numbers of strains from commercial culture collections such as the American Type Culture Collection (ATCC), Centraalbureau voor Schimmelcultures (CBS), CAB International Mycological Institute (IMI), and other registered general service collections are listed in this catalog to provide complete information about specific isolates. ***Representation of cultures obtained from ARSEF as being from ATCC, CBS, IMI or UAMH or other general service culture collections violates trademark laws, and persons doing so are subject to prosecution.*** Cultures received from ARSEF should be referred to by their ARSEF numbers only even if they are co-deposited in other other culture collections.

Depositing and Exchanging Cultures

BioIPM and ARSEF encourage deposition of entomopathogenic fungal cultures in the ARSEF collection—particularly strains used in published studies—and of voucher and reference specimens to its herbarium. Depositors may reserve the right to limit redistribution of any culture deposited with ARSEF for specified times upon consultation with the curator. Depositors can receive subcultures of their own depositions at any time; these cultures do not affect any allowances of free cultures. Exchanges of cultures between ARSEF and other research or general collections of fungal cultures are encouraged and are not subject to numerical limits.

Prior to shipping cultures from countries outside the United States contact the Curator to obtain the appropriate needed importation permit from the U.S. Department of Agriculture, Animal and Plant Health Inspection Services, Plant Protection and Quarantine.

When sending cultures and/or specimens to ARSEF, it is very important to include as much of the following information as possible:

1. Scientific name (and taxonomic authority) of the fungus.
2. Common and scientific name (with taxonomic authority) of the host.
3. Order and family of the host. (***This information is especially important!***)
4. Date and site of collection.
5. Name of collector.
6. Date and name of isolator.
7. Any collection, accession, or other identifier number(s) applied by the collector or sender.
8. Medium on which a culture is sent.
9. Any special requirements or conditions for growth (such as medium, temperature, pH).

Diagnostic Services for Cultures and Specimens

Specimens and cultures of unidentified fungi from invertebrates can be submitted to ARSEF for diagnosis. This service is an important function of the ARS Collections of Entomopathogenic Fungi and is provided without charge. Identifications and information about the disposition of specimens will be mailed to the sender.

Release of ARSEF Cultures from Containment or Quarantine

Neither the curator nor any employee of ARSEF or of the Plant Protection Research Unit is entitled to authorize the release of any culture it provides from laboratory containment or quarantine in the United States or elsewhere. Recipients of ARSEF cultures are responsible for obtaining appropriate and necessary permissions from or for providing official notifications to State and Federal regulatory agencies.

ORDERING INFORMATION

Please send all requests for isolates directly to the Curator (Richard A. Humber):

ARS Collection of Entomopathogenic Fungal Cultures
Robert W. Holley Center for Agriculture & Health
Tower Rd.
Ithaca, NY 14853-2901

Telephone: [+1] 607 255-1276
OR
Fax: [+1] 607 255-1132
Email: richard.humber@ars.usda.gov

Academic, Government, and Other Nonprofit Institutions

1–5 isolates [up to 7 per calendar year]	no charge
6 or more isolates per order [8 or more per calendar year]	US\$50 per strain

Users from nonprofit institutions can receive up to five isolates without charge in any 6 month period, and up to seven cultures in any calendar year. Requests in excess of these limits may be charged at the rate of US\$50 per additional isolate requested. Requests from commercially sponsored research programs undertaken by nonprofit institutions are charged at the commercial rate and are not subject to numerical limits. Prices are subject to change without notice.

Commercial and Industrial Institutions

US\$75 per strain

Nonprofit institutions working on commercially sponsored contractual projects (such as screening programs) are charged at the rate of US\$75 per strain requested. There are no limits on the numbers of cultures that can be requested or shipped. Prices are subject to change without notice.

Commercial or industrial firms supporting research at the ARS Plant Protection Research Unit are entitled to free access to cultures pertinent to contracted projects; all other requests are charged at the current rate.

TERMS OF SHIPMENT

If necessary, billings for isolates are issued through the Boyce Thompson Institute (BTI). *Checks or money orders for strains must be payable to the Boyce Thompson Institute* and sent directly to the curator of the ARS Collections of Entomopathogenic Fungi, to BTI or deposited by direct electronic funds transfer according to information provided by BTI. Consult the curator of the collections with questions about fees due for any particular shipment.

All recipients of cultures are strongly encouraged to provide express shipper account numbers to allow shipping costs to be billed directly to recipients, thus assuring significant cost-savings to the ARSEF collection.

We request confirmation of receipt and viability of cultures shipped. Inviable strains will be replaced.

ARSEF reserves the right to refuse to ship isolates

- to recipients who cannot handle them using standard microbiological practices,
- to laboratories that cannot assure laboratory containment of isolates except after obtaining permissions from applicable State and Federal regulatory agencies, or
- if use of routine mailing or shipping procedures cannot assure the receipt of viable cultures.

Neither ARSEF, BiolPM, nor the Boyce Thompson Institute is liable for damages arising from the misidentification of strains.

INTERPRETATION OF STRAIN ACCESSION DATA

The following examples provide a guide to the arrangement and interpretation of collection data included in this catalog.

***Beauveria bassiana* (Balsamo) Vuillemin**

1564 [CBS 111238]. KV Deséo (103) Cortellini. Pupa, *Hyphantria cunea* [Lepidoptera: Arctiidae]. Mar 1984. Italy: Villa Cadé (Reggio Emilia), Emilia-Romagna. Identification verified genomically. Ex-type isolate.

1564	ARSEF accession number.
[CBS 111238]	Alternative deposition in another culture collection.
KV Deséo (03)	Depositor and depositor's reference or accession number.
Cortellini	Collector of this isolate.
<i>Hyphantria cunea</i> [Lepidoptera: Arctiidae]	Original host [host's order and family]
Mar 1984	Date of accession or receipt by ARSEF.
Italy: Villa Cadé (Reggio Emilia), Emilia-Romagna	Country of origin followed by the locality and state.
Identification verified genomically. Ex-type isolate	Additional essential information about this isolate.

***Conidiobolus thrombooides* Drechsler**

73 [CSIRO EM534; FPMI 28] RG Kenneth (3040) ← ATCC (24419) ← DM MacLeod ← G Thoizon. *Rhopalosiphum insertum* [Homoptera: Aphididae]. Rec'd 18 Jan 1976. France: Val-de-Marne, La Varenne.

73	ARSEF accession number.
[CSIRO EM534; FPMI 28]	Alternative depositions of this strain in other culture collections.
RG Kenneth (3040)	Depositor and depositor's reference or accession number.
← ATCC (24419 ← DM MacLeod ← G Thoizon	Culture provenance: RG Kenneth obtained the culture from ATCC, which received it from DM MacLeod, who received it from G Thoizon.
<i>Rhopalosiphum insertum</i> [Acari: Eriophyidae]	Original host [host's order and family]
Rec'd Jan 18 1976	Date of receipt by ARSEF.
France: Val-de-Marne, La Varenne	Country of origin followed by the locality and region.

***Hirsutella thompsonii* Fisher**

137 [ATCC 24874; CBS 952.73] CW McCoy (Fla. 68). *Phyllocoptrus oleivora* [Acar: Eriophyidae]. 1 Jan 1970. USA: Orlando, Florida.

137	ARSEF accession number.
[ATCC 24874; CBS 952.73]	Alternative depositions of this strain in other culture collections.
CW McCoy (Fla. 68)	Depositor and depositor's reference or accession number.
<i>Phyllocoptrus oleivora</i> [Homoptera: Aphididae]	Original host together with the host's order and family.
Jan 1 1970	Date of accession or receipt by ARSEF. Note: January 1 is a default date if an exact date in a year is unknown; the first day of the month is the default if no specific day in a month is known.
USA: Orlando, Florida	Country of origin followed by the locality and state.

ABBREVIATIONS

Information about the world's officially registered culture collections, their registered acronyms (e.g., ARSEF), and more is available from the CCINFO database and from other resources available at the website of the World Data Center for Microbiology <http://wdcm.nig.ac.jp/WDCHomePage_text.html>

ARSEF	ARS Collection of Entomopathogenic Fungi, USDA-ARS BioIPM Research Unit, Robert W. Holley Center for Agriculture & Health, 538 Tower Rd., Ithaca, New York, 14853-2901, USA
ATCC	American Type Culture Collection, PO Box 1549, Manassas, Virginia 20108, USA
CATIE	Centro Agronómico Tropical de Investigación y Enseñanza, Proyecto UIP, Apdo. Postal 7170, Turrialba, Costa Rica.
CBS	Centraalbureau voor Schimmelcultures, Uppsalaalaan 8, 3584 CT Utrecht, The Netherlands
CCF	Culture Collection of Fungi, Department of Botany, Charles University, Prague, Czech Republic
CCFC	Canadian Collection of Fungus Cultures, Centre for Land and Biological Resources Research, Room 1015, K.W. Neatby Bldg., Ottawa, Ontario K1A 0C6, Canada
CDC	Centers for Disease Control and Prevention, Atlanta, Georgia 30333, USA
CENARGEN	Centro Nacional de Pesquisa de Recursos Genéticos e Biotecnologia, S.A.I.N. Parque Rural, C.P. 102372, 70770 Brasília, D.F., Brazil
CIRI	Corn Insects Research Unit, USDA-ARS, R.R. Box 45B, Ankeny, Iowa 50021, USA
CNPAF	National Center for Agricultural Research on Rice and Beans, EMBRAPA, Goiânia, Goiás, Brazil
CNPS	National Center for Agricultural Research on Soybeans, EMBRAPA, Londrina, Paraná, Brazil
CP	Strains isolated during joint US-Brazil program funded by US-AID to study fungal biocontrol of the insect pests of cowpeas
DAOM	National Mycological Herbarium, Centre for Land and Biological Resources Research, Agriculture Canada, Central Experimental Farm, Ottawa, Ontario, K1A 0C6, Canada
DAR	New South Wales Department of Agriculture, Rydalmere, NSW, Australia
EFCC	Korean Entomopathogenic Fungal Collection (JM Sung, Curator), Dept. of Agricultural Biology, Kangwon National University, Chuncheon, Rep. of Korea
FI	CSIRO Entomology Division, Collection of Entomopathogenic Fungi, Black Mountain Laboratories, Canberra, ACT, Australia. This collection, formerly curated by R. Milner, is now orphaned and is being transferred to ARSEF.
FPMI	Great Lakes Forestry Center (formerly Forest Pest Management Institute), 1219 Queen Street East, Sault Ste. Marie, Ontario P6A 5M7, Canada. This collection, formerly led by D MacLeod and D Tyrrell is orphaned and endangered. Its surviving isolates <i>may</i> be

transferred to DAOM.

GCRI	Horticulture Research International (formerly, Glasshouse Crops Research Institute), Worthing Road, Littlehampton, W. Sussex BN17 6LP, England, UK
HACC	Hindustan Antibiotics Ltd., Pimpri, Poona, India
IMI	(Now incorporated in United Kingdom National Culture Collection [UKNCC]) CABI Bioscience, Bakeham Lane, Egham, Surrey TW20 9TY, UK
INRA	Station de Recherches de lutte Biologique et Biocoenotique, INRA (Institut National de la Recherche Agronomique), La Minière – 78280 Guyancourt, France
IPLB	Unité de Lutte Biologique, Institut Pasteur, 28 Rue de Dr. Roux, 75724 Paris, France
IRRI	International Rice Research Institute, P.O. Box 933, Manila, Philippines
KEFC	(see EFCC)
KSU	Kansas State University, Department of Entomology, Manhattan, Kansas 66506, USA
MAF	Ministry of Agriculture and Fisheries, Canterbury Agriculture and Science Centre, Ellesmere Junction Road, P.O. Box 24, Lincoln, New Zealand
MU	Miami University, Willard Sherman Turrell Herbarium, Department of Botany, 79 Upham Hall, Oxford, Ohio 45056, USA
NCTC	National Collection of Type Cultures, Public Health Laboratory Service, 61 Colindale Ave., London NW9 5HT, England, UK
NRRL	ARS Culture Collection, USDA-ARS National Center for Agricultural Utilization Research, 1815 N. University, Peoria, Illinois 61604, USA
PSU	<i>Fusarium</i> Research Center, The Pennsylvania State University, 216 Buckhout Laboratory, University Park, Pennsylvania 16802, USA
QEC	Queen Elizabeth College, University of London, Department of Biology, Campden Hill Road, London W8 7AH, England, UK
QM	U.S. Army Natick Laboratories (formerly, Quartermaster Research and Development Center), Natick Massachusetts. Note: This collection has been transferred to NRRL.
RSA	Rancho Santa Ana Botanic Garden, 1500 North College Ave., Claremont, California 91711, USA
SBI	Sugarcane Breeding Institute, Indian Council of Agricultural Research, Coimbatore – 641 007, Tamil Nadu, India
UAF	University of Arkansas, Department of Entomology, 321 Agriculture Building, Fayetteville, Arkansas 72701, USA
UAMH	University of Alberta Microfungus Collection, Devonian Botanic Garden, University of Alberta, Alberta T6G 2H7, Canada

Fungal Cultures

Metarhiziosis microspora *Metarhizium* sp.

Metarhiziosis microspora D-W Li, R Cowles, & C Vossbrinck
[Sordariomycetes: Hypocreales]
Ophiocordycipitaceae

- 8676 DW Li. *Fiorinia externa* [Homoptera: Diaspididae]. Oct 2006. USA: Coventry, Connecticut. 41°47.25' N, 72°21.50' W. Holotype deposited as BPI 878276. CULTURE EX TYPE.
- 8984 [ERL 1349] VS Gouli (EHS-333). *Fiorinia externa* [Homoptera: Diaspididae]. 2006. USA: Massachusetts.
- 8985 [ERL 1350] VS Gouli (EHS-344). *Fiorinia externa* [Homoptera: Diaspididae]. 2006. USA: Massachusetts.
- 8986 [ERL 1497] VS Gouli (EHS-269). *Fiorinia externa* [Homoptera: Diaspididae]. 2005. USA: New York.
- 8987 [ERL 1499] S Gouli (EHS-271). *Fiorinia externa* [Homoptera: Diaspididae]. 2005. USA: New York.
- 8988 [ERL 1502] VS Gouli (EHS-274). *Fiorinia externa* [Homoptera: Diaspididae]. 2005. USA: New York.

***Metarhizium* sp.**

[Sordariomycetes: Hypocreales]
Clavicipitaceae

- 2353 [ARSEF 2382 (never frozen)] MC Rombach (201286-4). [Homoptera: Cicadellidae]. 20 Dec 1986. Philippines: rainforest, Mt. Makiling, Los Baños, Manila.
- 3613 IMI (I91-647). *Hieroglyphus daganensis*. Rec'd 26 Feb 1992. Benin.
- 3615 IMI (I91-672). *Zonocerus variegatus* [Orthoptera: Pyrgomorphidae]. Rec'd 26 Feb 1992. Guinea-Bissau.
- 3616 IMI (I91-673). *Diabolocatantops axillaris*. Rec'd 26 Feb 1992. Tchad.
- 3617 IMI (I91-674). *Acrida bicolor*. Rec'd 26 Feb 1992. Tchad.
- 3618 IMI (I91-675). *Zonocerus variegatus* [Orthoptera: Pyrgomorphidae]. Rec'd 26 Feb 1992. Mali.
- 3767 DW Roberts ← A Bellotti (9241). 21 Apr 1992. Colombia.
- 4165 [DAT 193] AC Rath (F193) ← H Yip (HY168). Soil. 26 Sep 1988. Australia: Springmere, Beaconsfield, Tasmania.
- 4367 LA Lacey (94117). Soil Galleria bait. 27 Apr 1994. Japan: Takao Golf Course, Sapporo, Hokkaido.
- 4368 LA Lacey (94118). Soil Galleria bait. 27 Apr 1994. Japan: Takao Golf Course, Sapporo, Hokkaido.
- 4369 LA Lacey (94119). Soil Galleria bait. 27 Apr 1994. Japan: Takao Golf Course, Sapporo, Hokkaido.
- 4370 LA Lacey (94120). Soil Galleria bait. 27 Apr 1994. Japan: Takao Golf Course, Sapporo, Hokkaido.
- 4371 LA Lacey (94121). Soil Galleria. 27 Apr 1994. Japan: Takao Golf Course, Sapporo, Hokkaido.
- 4372 LA Lacey (94122). Soil. 5 May 1994. Japan: Sapporo, Hokkaido.

- 4373 LA Lacey (94123). Soil. 5 May 1994. Japan: Sapporo, Hokkaido.
- 4374 LA Lacey (94124). Soil. 5 May 1994. Japan: Sapporo, Hokkaido.
- 4375 LA Lacey (94125). Soil. 5 May 1994. Japan: Sapporo, Hokkaido.
- 4997 SR Booth (Waara). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae]. 9 May 1995. USA: Cranberry bog, Grayland, Washington.
- 4998 SR Booth (Gant). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae]. 1 Jun 1995. USA: Cranberry bog, Bandon, Oregon.
- 4999 SR Booth (Quinby; MSP). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae]. 9 May 1995. USA: Cranberry bog, Grayland, Washington.
- 5000 SR Booth (Scherer). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae]. 1 Jun 1995. USA: Cranberry bog, Bandon, Oregon.
- 5001 SR Booth (Johnson). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae]. 17 Jul 1995. USA: Cranberry bog, Grayland, Washington.
- 5076 SR Booth (Warnock). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae]. 23 Apr 1995. USA: Cranberry bog, Bandon, Oregon.
- 5077 SR Booth (McMahon). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae]. 23 Feb 1995. USA: Cranberry bog, Bandon, Oregon.
- 5139 SR Booth (Dibkey). Soil. 28 Feb 1994. USA: Cranberry bog, Grayland, Washington.
- 6413 EA Ouna (Kutui-4). Rec'd 22 Dec 1999.
- 7389 M Liu (ml193). 17 Dec 2003. USA: Toro Negro, Puerto Rico.
- 7493 [CSIRO FI-1358] *Dermolepida albohirtum* [Coleoptera: Scarabaeidae]. 23 Jul 1999. Laboratory infection.
- 7495 [CSIRO FI-1395] *Rhopaea magnicornis* [Coleoptera: Scarabaeidae]. 27 Dec 1999. Australia: Condong, New South Wales.
- 7497 [CSIRO FI-1408] Isolated from soil. 18 Apr 2000. Raspardis.
- 7643 [SRCAM VLI-271] V Likhovidov. Rec'd 29 Sep 2003.
- 7645 [SRCAM F-362] V Likhovidov (B-415) ← BA Borisov. Rec'd 14 Mar 2005.
- 8699 ST Jaronski (GE052). *Calliptamus italicus* [Orthoptera: Catantopidae]. 7 Mar 2006. Republic of Georgia: Sagarejo, Kakheti.
- 8851 [CSIRO FI-1342] *Rhopaea magnicornis* [Coleoptera: Scarabaeidae] from Condong insect A4. Jun 1999. Australia: Condong, New South Wales.
- 8852 [CSIRO FI-1345] *Rhopaea magnicornis* [Coleoptera: Scarabaeidae] from Condong insect 71. Jun 1999. Australia: Condong, New South Wales.
- 8855 [CSIRO FI-1352] *Rhopaea magnicornis* [Coleoptera: Scarabaeidae] from Condong insect 420. 23 Jul 1999. Australia: Condong, New South Wales.

- 8856 [CSIRO FI-1353] *Rhopaea magnicornis* [Coleoptera: Scarabaeidae] from Condong insect 334. 23 Jul 1999. Australia: Condong, New South Wales.
- 8857 [CSIRO FI-1354] *Rhopaea magnicornis* [Coleoptera: Scarabaeidae] from Condong insect 349. 23 Jul 1999. Australia: Condong, New South Wales.
- 9617 DW Roberts (DWR 356). Isolated from soil sample SS 0470. 14 Jun 2006. USA: Flaming Gorge National Recreation Area, Utah. N 40 51.222, W 109 33.964.
- 9618 DW Roberts (DWR 357). Isolated from soil sample SS 0715. 6 Aug 2007. USA: Grant County, North Dakota. N 46 59.052, W 101 30.944.
- 9619 DW Roberts (DWR 358). Isolated from soil sample SS 0520. 14 May 2007. USA: Charlottesville, Virginia.
- 9620 DW Roberts (DWR 364). Isolated from soil sample SS 1070. 2 Aug 2007. USA: Rolette County, North Dakota. N 48.8194, W 100.0704.
- 9621 DW Roberts (DWR 365). Isolated from soil sample SS 1072. 6 Aug 2007. USA: McHenry County, North Dakota. N 48.6036, W 100.6033.
- 9622 DW Roberts (DWR 366). Isolated from soil sample SS 1090. 3 Aug 2007. USA: Bottineau County, North Dakota. N 48.9718, W 100.777.
- 9623 DW Roberts (DWR 367). Isolated from soil sample SS 1100. 3 Aug 2007. USA: Bottineau County, North Dakota. N 48.871, W 100.4677.
- 9624 DW Roberts (DWR 368). Isolated from soil sample SS 1102. 6 Aug 2007. USA: McHenry County, North Dakota. N 48.001, W 100.7072.
- 9625 DW Roberts (DWR 369). Isolated from soil sample SS 1104. 6 Aug 2007. USA: McHenry County, North Dakota. N 48.232, W 100.453.
- 9626 DW Roberts (DWR 379). Isolated from soil sample SS 1082. 2 Aug 2007. USA: Bottineau County, North Dakota. N 48.7622, W 101.2995.
- 9627 DW Roberts (DWR 380). Isolated from soil sample SS 1093. 6 Aug 2007. USA: McHenry County, North Dakota. N 48.5478, W 100.6723.
- 9628 DW Roberts (DWR 381). Isolated from soil sample SS 1106. 6 Aug 2007. USA: Bottineau County, North Dakota. N 48.7698, W 100.4680.
- 9629 DW Roberts (DWR 382). Isolated from soil sample SS 0644. Summer 2007. USA: Dewey County, South Dakota. N 45.1538, W 100.388646.
- 9630 DW Roberts (DWR 383). Isolated from soil sample SS 1072. 6 Aug 2007. USA: McHenry County, North Dakota. N 48.6036, W 100.6033.
- 9631 DW Roberts (DWR 384). Isolated from soil sample SS 1084. 2 Aug 2007. USA: Bottineau County, North Dakota. N 48.951, W 101.3027.
- 9632 DW Roberts (DWR 385). Isolated from soil sample SS 1083. 2 Aug 2007. USA: Bottineau County, North Dakota. N 48.8205, W 100.49503.
- 9633 DW Roberts (DWR 386). Isolated from soil sample SS 1090. 3 Aug 2007. USA: Bottineau County, North Dakota. N 48.9718, W 100.777.
- 9634 DW Roberts (DWR 387). Isolated from soil sample SS 1094. 6 Aug 2007. USA: Bottineau County, North Dakota. N 48.683, W 100.494.
- 9635 DW Roberts (DWR 388). Isolated from soil sample SS 1106. 6 Aug 2007. USA: Bottineau County, North Dakota. N 48.7698, W 100.4680.
- 9636 DW Roberts (DWR 389). Isolated from soil sample SS 1153. 28 Sep 2007. USA: Gila County, Arizona. N 33.02294, W 110.73784.
- 9637 DW Roberts (DWR 390). Isolated from soil sample SS 1076. 3 Aug 2007. USA: Lincoln County, Nebraska. N 40.9049, W 100.4918.
- 9638 DW Roberts (DWR 391). Isolated from soil sample SS 1100. 3 Aug 2007. USA: Bottineau County, North Dakota. N 48.871, W 100.4677.
- 9639 DW Roberts (DWR 392). Isolated from soil sample SS 1093. 6 Aug 2007. USA: McHenry County, North Dakota. N 48.5478, W 100.6723.
- 9640 DW Roberts (DWR 393). Isolated from soil sample SS 1104. 6 Aug 2007. USA: McHenry County, North Dakota. N 48.232, W 100.453.
- 9641 DW Roberts (DWR 456). Isolated from soil sample SS 1025. 20 Aug 2007. USA: Gila County, Arizona. N 34.30316, W 111.35052.
- 9642 DW Roberts (DWR 457). Isolated from soil sample SS 1079. 3 Aug 2007. USA: Bottineau County, North Dakota. N 48.9663, W 100.67.
- 9643 DW Roberts (DWR 459). Isolated from soil sample SS 1016. 20 Aug 2007. USA: Yavapai County, Arizona. N 34.27512, W 112.26281.
- 9644 DW Roberts (DWR 460). Isolated from soil sample SS 1105. 6 Aug 2007. USA: McHenry County, North Dakota. N 48.029, W 100.452.
- 9645 DW Roberts (DWR 461). Isolated from soil sample SS 1098. 6 Aug 2007. USA: McHenry County, North Dakota. N 48.5035, W 100.614.
- 9646 DW Roberts (DWR 462). Isolated from soil sample SS 1103. 6 Aug 2007. USA: McHenry County, North Dakota. N 47.950, W 100.455.
- 9647 DW Roberts (DWR 463). Isolated from soil sample SS 1112. 6 Aug 2007. USA: McHenry County, North Dakota. N 48.1781, W 100.929.
- 9648 DW Roberts (DWR 464). Isolated from soil sample SS 1092. 2 Aug 2007. USA: Bottineau County, North Dakota. N 48.82966, W 100.59928.
- 9649 DW Roberts (DWR 465). Isolated from soil sample SS 1086. 2 Aug 2007. USA: Bottineau County, North Dakota. N 48.8735, W 101.3013.
- 9650 DW Roberts (DWR 471). Isolated from soil sample SS 0744. 6 Aug 2007. USA: Morton County, North Dakota. N 46.55247, W 101.27917.
- 9651 DW Roberts (DWR 472). Isolated from soil sample SS 1154. 28 Sep 2007. USA: Gila County, Arizona. N 33.02332, W 110.73669.

- 9652 DW Roberts (DWR 473). Isolated from soil sample SS 1180. 28 Sep 2007. USA: Gila County, Arizona. N 33.02321, W 110.7371.
- 9653 DW Roberts (DWR 478). Isolated from soil sample SS 1274. 5 Jun 2008. USA: Logan Field, Logan, Utah. N 41 46.131, W 111 49.369.
- 9654 DW Roberts (DWR 479). Isolated from soil sample SS 1277. 5 Jun 2008. USA: Logan Field, Logan, Utah. N 41 46.126, W 111 49.341.
- 9655 DW Roberts (DWR 480). Isolated from soil sample SS 1274. 5 Jun 2008. USA: Logan Field, Logan, Utah. N 41 46.131, W 111 49.369.
- 9656 DW Roberts (DWR 484). Isolated from soil sample SS 1065a. 3 Aug 2007. USA: Bottineau County, North Dakota. N 48.889, W 100.4711.
- 9657 DW Roberts (DWR 485). Isolated from soil sample SS 1065b. 3 Aug 2007. USA: Bottineau County, North Dakota. N 48.889, W 100.4711.
- 9658 DW Roberts (DWR 497). Isolated from soil sample SS 1346. 8 Aug 2008. USA: Wheeler County, Nebraska.
- 9659 DW Roberts (DWR 498). Isolated from soil sample SS 1362. 8 Aug 2008. USA: Garfield County, Nebraska.
- 9660 DW Roberts (DWR 499). Isolated from soil sample SS 1393. 8 Aug 2008. USA: Blaine County, Nebraska.
- 9661 DW Roberts (DWR 500). Isolated from soil sample SS 3284. 4 Aug 2008. USA: Knox #1, Knox County, Texas.
- 9662 DW Roberts (DWR 501). Isolated from soil sample SS 1331. 8 Aug 2008. USA: Garfield County, Nebraska.
- 9663 DW Roberts (DWR 502). Isolated from soil sample SS 1333. 8 Aug 2008. USA: Garfield County, Nebraska.
- 9664 DW Roberts (DWR 503). Isolated from soil sample SS 1329. 8 Aug 2008. USA: Garfield County, Nebraska.
- 9665 DW Roberts (DWR 504). Isolated from soil sample SS 1336. 8 Aug 2008. USA: Garfield County, Nebraska.
- 9666 DW Roberts (DWR 505). Isolated from soil sample SS 1338. 8 Aug 2008. USA: Wheeler County, Nebraska.
- 9667 DW Roberts (DWR 507). Isolated from soil sample SS 1342. 8 Aug 2008. USA: Wheeler County, Nebraska.
- 9668 DW Roberts (DWR 508). Isolated from soil sample SS 1363. 8 Aug 2008. USA: Garfield County, Nebraska.
- 9669 DW Roberts (DWR 509). Isolated from soil sample SS 1373. 8 Aug 2008. USA: Loup County, Nebraska.
- 9670 DW Roberts (DWR 510). Isolated from soil sample SS 1374. 8 Aug 2008. USA: Loup County, Nebraska.
- 9671 DW Roberts (DWR 512). Isolated from soil sample SS 1379. 8 Aug 2008. USA: Loup County, Nebraska.
- 9672 DW Roberts (DWR 513). Isolated from soil sample SS 1381. 8 Aug 2008. USA: Loup County, Nebraska.
- 9673 DW Roberts (DWR 514). Isolated from soil sample SS 1385. 8 Aug 2008. USA: Loup County, Nebraska.
- 9674 DW Roberts (DWR 515). Isolated from soil sample SS 1387. 8 Aug 2008. USA: Loup County, Nebraska.
- 9675 DW Roberts (DWR 516). Isolated from soil sample SS 1388. 8 Aug 2008. USA: Blaine County, Nebraska.
- 9676 DW Roberts (DWR 517). Isolated from soil sample SS 1394. 8 Aug 2008. USA: Blaine County, Nebraska.
- 9677 DW Roberts (DWR 518). Isolated from soil sample SS 1361. 8 Aug 2008. USA: Garfield County, Nebraska.
- 9678 DW Roberts (DWR 519). Isolated from soil sample SS 1356. 8 Aug 2008. USA: Wheeler County, Nebraska.
- 9679 DW Roberts (DWR 520). Isolated from soil sample SS 1360. 8 Aug 2008. USA: Garfield County, Nebraska.
- 9680 DW Roberts (DWR 521). Isolated from soil sample SS 1349. 8 Aug 2008. USA: Wheeler County, Nebraska. .
- 9681 DW Roberts (DWR 522). Isolated from soil sample SS 1358. 8 Aug 2008. USA: Garfield County, Nebraska.
- 9682 DW Roberts (DWR 523). Isolated from soil sample SS 1410. 8 Aug 2008. USA: Blaine County, Nebraska.
- 9683 DW Roberts (DWR 524). Isolated from soil sample SS 1417. 8 Aug 2008. USA: Brown County, Nebraska.
- 9684 DW Roberts (DWR 525). Isolated from soil sample SS 1420. 8 Aug 2008. USA: Brown County, Nebraska.
- 9685 DW Roberts (DWR 526). Isolated from soil sample SS 1423. 8 Aug 2008. USA: Brown County, Nebraska.
- 9686 DW Roberts (DWR 529). Isolated from soil sample SS 3536. 28 May 2008. USA: Kit Carson County, Colorado. N 39.51167, W 102.79814.
- 9687 DW Roberts (DWR 534). Isolated from soil sample SS 1428. 8 Aug 2008. USA: Brown County, Nebraska.
- 9688 DW Roberts (DWR 535). Isolated from soil sample SS 4334. 9 Jun 2008. USA: Slope County, North Dakota. N 46.612422, W 103.624825.
- 9689 DW Roberts (DWR 541). Isolated from soil sample SS 1348. 8 Aug 2008. USA: Wheeler County, Nebraska.
- 9690 DW Roberts (DWR 542). Isolated from soil sample SS 1344. 8 Aug 2008. USA: Wheeler County, Nebraska.
- 9691 DW Roberts (DWR 543). Isolated from soil sample SS 1340. 8 Aug 2008. USA: Wheeler County, Nebraska.
- 9692 DW Roberts (DWR 544). Isolated from soil sample SS 1335. 8 Aug 2008. USA: Garfield County, Nebraska.

- 9693 DW Roberts (DWR 545). Isolated from soil sample SS 3531. 27 May 2008. USA: Kit Carson County, Colorado. N 39.25426, W 102.59593.
- 9694 DW Roberts (DWR 546). Isolated from soil sample SS 4264. 20 Aug 2008. USA: Deuel County, Nebraska. N 41.01896, W 102.31688.
- 9695 DW Roberts (DWR 547). Isolated from soil sample SS 4298. 25 Aug 2008. USA: Kimball County, Nebraska. N 41.03109, W 103.58331.
- 9696 DW Roberts (DWR 550). Isolated from soil sample SS 5196. 12 Jun 2008. USA: Tripp County, South Dakota. N 43.55949, W 100.1801.
- 9697 DW Roberts (DWR 572). Isolated from soil sample SS 1591. 13 Aug 2008. USA: Grant County, Nebraska. N 41.962825, W 101.5065883.
- 9698 DW Roberts (DWR 573). Isolated from soil sample SS 1613. 13 Aug 2008. USA: Thomas County, Nebraska. N 41.874645, W 100.55963.
- 9699 DW Roberts (DWR 574). Isolated from soil sample SS 4159. 11 Aug 2008. USA: Lake County, Oregon. N 43.065365, W 120.94326.
- 9700 DW Roberts (DWR 575). Isolated from soil sample SS 3231. 14 Aug 2008. USA: Custer County, Nebraska. N 41.6032, W 99.368.
- 9701 DW Roberts (DWR 576). Isolated from soil sample SS 4919. 16 Jun 2008. USA: McKenzie County, North Dakota. N 47.45426, W 103.3229816.
- 9702 DW Roberts (DWR 577). Isolated from soil sample SS 4910. 20 Jun 2008. USA: Cavalier County, North Dakota. N 48.87706, W 98.44704.
- 9703 DW Roberts (DWR 578). Isolated from soil sample SS 3162. 20 Aug 2008. USA: Ferry County, Washington. N 48.85187, W 118.57246.
- 9704 DW Roberts (DWR 579). Isolated from soil sample SS 3157. 20 Aug 2008. USA: Ferry County, Washington. N 48.33129, W 118.22768.
- 9705 DW Roberts (DWR 580). Isolated from soil sample SS 4898. 20 Aug 2008. USA: McHenry County, North Dakota. N 47.96483, W 100.75755.
- 9706 DW Roberts (DWR 581). Isolated from soil sample SS 5088. 21 May 2008. USA: Dawes County, Nebraska. N 42.53034, W 103.435115.
- 9707 DW Roberts (DWR 582). Isolated from soil sample SS 4896. 12 Jun 2008. USA: Bottineau County, North Dakota. N 48.82642, W 100.43565.
- 9708 DW Roberts (DWR 587). Isolated from soil sample SS 1565. 13 Aug 2008. USA: Gosper County, Nebraska. N 40.5833, W 99.7362.
- 9709 DW Roberts (DWR 588). Isolated from soil sample SS 1588. 13 Aug 2008. USA: Grant County, Nebraska. N 42.00765, W 101.692933.
- 9710 DW Roberts (DWR 589). Isolated from soil sample SS 1601. 13 Aug 2008. USA: Thomas County, Nebraska. N 41.952882, W 100.825563.
- 9711 DW Roberts (DWR 590). Isolated from soil sample SS 1596. 13 Aug 2008. USA: Grant County, Nebraska. N 41.865396, W 101.504183.
- 9712 DW Roberts (DWR 591). Isolated from soil sample SS 1595. 13 Aug 2008. USA: Grant County, Nebraska. N 42.057075, W 101.77683.
- 9713 DW Roberts (DWR 592). Isolated from soil sample SS 1608. 13 Aug 2008. USA: Thomas County, Nebraska. N 41.821448, W 100.822816.
- 9714 DW Roberts (DWR 593). Isolated from soil sample SS 1566. 13 Aug 2008. USA: Hooker County, Nebraska. N 42.044426, W 101.117968.
- 9715 DW Roberts (DWR 594). Isolated from soil sample SS 1593. 13 Aug 2008. USA: Grant County, Nebraska. N 42.065413, W 101.530276.
- 9716 DW Roberts (DWR 595). Isolated from soil sample SS 1594. 13 Aug 2008. USA: Grant County, Nebraska. N 42.027168, W 101.533728.
- 9717 DW Roberts (DWR 596). Isolated from soil sample SS 1586. 13 Aug 2008. USA: Grant County, Nebraska. N 41.826025, W 101.760582.
- 9718 DW Roberts (DWR 597). Isolated from soil sample SS 2182. 12 Aug 2008. USA: Keya Paha County, Nebraska.
- 9719 DW Roberts (DWR 598). Isolated from soil sample SS 2191. 12 Aug 2008. USA: Cherry County, Nebraska.
- 9720 DW Roberts (DWR 599A). Isolated from soil sample SS 2186. 12 Aug 2008. USA: Cherry County, Nebraska.
- 9721 DW Roberts (DWR 599B). Isolated from soil sample SS 2185. 12 Aug 2008. USA: Cherry County, Nebraska.
- 9722 DW Roberts (DWR 600A). Isolated from soil sample SS 2201. 18 Aug 2008. USA: Lincoln County, Nebraska. N 40.87299, W 100.74817.
- 9723 DW Roberts (DWR 600B). Isolated from soil sample SS 1573. 13 Aug 2008. USA: Hooker County, Nebraska. N 42.036406, W 101.363095.
- 9724 DW Roberts (DWR 601). Isolated from soil sample SS 1619. 13 Aug 2008. USA: Thomas County, Nebraska. N 41.821975, W 100.64611.
- 9725 DW Roberts (DWR 602). Isolated from soil sample SS 1615. 13 Aug 2008. USA: Thomas County, Nebraska. N 41.88955, W 100.620578.
- 9726 DW Roberts (DWR 603). Isolated from soil sample SS 3164, colony 1. 19 Aug 2008. USA: Pend Oreille County, Washington. N 48.2942, W 117.3212.
- 9727 DW Roberts (DWR 604). Isolated from soil sample SS 3164, colony 2. 19 Aug 2008. USA: Pend Oreille County, Washington. N 48.2942, W 117.3212.
- 9728 DW Roberts (DWR 605). Isolated from soil sample SS 3168. 22 Aug 2008. USA: Columbia County, Washington. N 46.5231, W 118.1798.

Fungal Cultures

Metarhizium sp.

- 9729 DW Roberts (DWR 619). Isolated from soil sample SS 4206. 22 May 2008. USA: Gilliam County, Oregon. N 45.720393, W 120.03681.
- 9730 DW Roberts (DWR 620). Isolated from soil sample SS 4911. 16 Jun 2008. USA: Cavalier County, North Dakota. N 48.7757, W 98.47257.
- 9731 DW Roberts (DWR 621). Isolated from soil sample SS 1480. Jul 2008. USA: Garfield County, Washington. N 46.60686, W 117.70329.
- 9732 DW Roberts (DWR 632). Isolated from soil sample SS 3198. 13 Aug 2008. USA: Stevens County, Washington. N 47.9277, W 118.3314.
- 9733 DW Roberts (DWR 633). Isolated from soil sample SS 5165. 9 Jul 2008. USA: Banner County, Nebraska. N 41.690865, W 103.77482.
- 9734 DW Roberts (DWR 634). Isolated from soil sample SS 5162. 9 Jul 2008. USA: Banner County, Nebraska. N 41.42244, W 103.7332.
- 9735 DW Roberts (DWR 635). Isolated from soil sample SS 5161. 9 Jul 2008. USA: Banner County, Nebraska. N 41.422255, W 103.90616.
- 9736 DW Roberts (DWR 636). Isolated from soil sample SS 5173. 14 Jul 2008. USA: Sioux County, Nebraska. N 42.19941, W 103.65938.
- 9737 DW Roberts (DWR 637). Isolated from soil sample SS 5126. 8 Jul 2008. USA: Scotts Bluff County, Nebraska. N 41.900395, W 103.96573.
- 9738 DW Roberts (DWR 638). Isolated from soil sample SS 5125, colony 1. 21 Aug 2008. USA: Morrill County, Nebraska. N 41.94702, W 102.805535.
- 9739 DW Roberts (DWR 639). Isolated from soil sample SS 5125, colony 2. 21 Aug 2008. USA: Morrill County, Nebraska. N 41.94702, W 102.805535.
- 9740 DW Roberts (DWR 640). Isolated from soil sample SS 1675. 14 Aug 2008. USA: Howard County, Nebraska. N 41.0758, W 98.4988.
- 9741 DW Roberts (DWR 641). Isolated from soil sample SS 5260. 12 Jun 2008. USA: Tripp County, South Dakota. N 43.623, W 100.18025.
- 9742 DW Roberts (DWR 642). Isolated from soil sample SS 1476. 16 Jul 2008. USA: Walla Walla County, Washington. N 46.37046, W 118.61125.
- 9743 DW Roberts (DWR 643). Isolated from soil sample SS 1552. 30 Jun 2008. USA: Grant County, Washington. N 47.86587, W 119.08509.
- 9744 DW Roberts (DWR 655). Isolated from soil sample SS 3193. 13 Aug 2008. USA: Stevens County, Washington. N 48.6667, W 117.9522.
- 9745 DW Roberts (DWR 656). Isolated from soil sample SS 5131. 7 Jul 2008. USA: Box Butte County, Nebraska. N 42.268725, W 103.3067.
- 9746 DW Roberts (DWR 657). Isolated from soil sample SS 3274. 13 Aug 2008. USA: Custer County, Nebraska. N 41.5787, W 99.8981.
- 9747 DW Roberts (DWR 658). Isolated from soil sample SS 1701. 14 Jul 2008. USA: Dundy County, Nebraska. N 40.28473, W 101.56906.
- 9748 DW Roberts (DWR 659). Isolated from soil sample SS 7854. 10 Jun 2008. USA: Sanders, Montana.
- 9749 DW Roberts (DWR 660). Isolated from soil sample SS 3200. 13 Aug 2008. USA: Stevens County, Washington. N 48.6906, W 118.0891.
- 9750 DW Roberts (DWR 669). Isolated from soil sample SS 1700. 14 Jul 2008. USA: Dundy County, Nebraska. N 40.27132, W 101.70121.
- 9751 DW Roberts (DWR 670). Isolated from soil sample SS 3401. 23 Jul 2008. USA: WB-27, Oregon.
- 9752 DW Roberts (DWR 692). Isolated from soil sample SS 5360. 25 Jun 2008. USA: Meade County, South Dakota. N 44.645871, W 102.803646.
- 9753 DW Roberts (DWR 693). Isolated from soil sample SS 5384. 9 Jun 2008. USA: Haakon County, South Dakota. N 44.373687, W 101.318395.
- 9754 DW Roberts (DWR 694). Isolated from soil sample SS 7869. 25 Jun 2008. USA: Lake County, Montana.
- 9755 DW Roberts (DWR 695). Laboratory isolate from sector of DWR 604 (=ARSEF 9727). Rec'd 23 Feb 2010.
- 9756 DW Roberts (DWR 696). Laboratory isolate from sector of DWR 522, ARSEF 9681. Rec'd 23 Feb 2010.
- 9757 DW Roberts (DWR 697). Isolated from soil sample SS 3727. 24 Jun 2008. USA: El Paso County, Colorado. N 38.93254, W 104.47892.
- 9758 DW Roberts (DWR 712). Isolated from soil sample SS 5278, colony 1. 11 Jun 2008. USA: Tripp County, South Dakota. N 43.2273, W 100.07745.
- 9759 DW Roberts (DWR 713). Isolated from soil sample SS 5278, colony 2. 25 Jun 2008. USA: Tripp County, South Dakota. N 43.2273, W 100.07745.
- 9760 DW Roberts (DWR 714). Isolated from soil sample SS 4408, colony 1. 5 Jun 2008. USA: McKenzie County, North Dakota. N 47.396308, W 103.792566.
- 9761 DW Roberts (DWR 715). Isolated from soil sample SS 4408, colony 2. 5 Jun 2008. USA: McKenzie County, North Dakota. N 47.396308, W 103.792566.
- 9762 DW Roberts (DWR 716). Isolated from soil sample SS 4562. 19 Jun 2008. USA: Childress County, Texas. N 34.61709, W 100.22923.
- 9763 DW Roberts (DWR 741). Isolated from soil sample SS 3906. 3 Jul 2008. USA: Elbert County, Colorado. N 39.56473, W 104.53163.
- 9764 DW Roberts (DWR 742). Isolated from soil sample SS 3941. 10 Jul 2008. USA: Park County, Colorado. N 38.83554, W 105.634.
- 9765 DW Roberts (DWR 758). Isolated from soil sample SS 2788. 17 Jul 2008. USA: Pima County, Arizona. N 31.77063, W 110.629443.

- 9766 DW Roberts (DWR 759). Isolated from soil sample SS 2787. 17 Jul 2008. USA: Pima County, Arizona. N 31.77063, W 110.629443.
- 9767 DW Roberts (DWR 760). Isolated from soil sample SS 2789. 17 Jul 2008. USA: Pima County, Arizona. N 31.77063, W 110.629443.
- 9768 DW Roberts (DWR 761). Isolated from soil sample SS 8796. 11 Jun 2008. USA: Pueblo County, Colorado. N 38.393073, W 104.599656.
- 9769 DW Roberts (DWR 762). Isolated from soil sample SS 8797. 11 Jun 2008. USA: Pueblo County, Colorado. N 38.462466, W 104.589846.
- 9770 DW Roberts (DWR 763). Isolated from soil sample SS 8794. 10 Jun 2008. USA: Pueblo County, Colorado. N 37.968083, W 104.187966.
- 9771 DW Roberts (DWR 764). Isolated from soil sample SS 8793. 10 Jun 2008. USA: Pueblo County, Colorado. N 37.925448, W 104.132711.
- 9772 DW Roberts (DWR 765). Isolated from soil sample SS 8786. 10 Jun 2008. USA: Otero County, Colorado. N 37.823345, W 103.771361.
- 9773 DW Roberts (DWR 766). Isolated from soil sample SS 8784. 10 Jun 2008. USA: Otero County, Colorado. N 37.822876, W 103.620225.
- 9774 DW Roberts (DWR 767). Isolated from soil sample SS 8791. 10 Jun 2008. USA: Otero County, Colorado. N 37.900196, W 103.876408.
- 9775 DW Roberts (DWR 768). Isolated from soil sample SS 8795. 11 Jun 2008. USA: Pueblo County, Colorado. N 38.330548, W 104.60265.
- 9776 DW Roberts (DWR 793). Isolated from soil sample SS 2018. 13 Aug 2008. USA: Gosper County, Nebraska. N 40.4877, W 99.9251.
- 9777 DW Roberts (DWR 794). Isolated from soil sample SS 2000. 11 Jun 2008. USA: Lincoln County, Nebraska. N 41.29323, W 100.84752.
- 9778 DW Roberts (DWR 795). Isolated from soil sample SS 1914. 28 Jul 2008. USA: Frontier County, Nebraska. N 40.57032, W 100.51155.
- 9779 DW Roberts (DWR 796). Isolated from soil sample SS 4639. 3 Jun 2008. USA: Schleicher County, Texas. N 31.04374, W 100.80695.
- 9780 DW Roberts (DWR 797). Isolated from soil sample SS 2083. 13 Aug 2008. USA: Brown County, Nebraska.
- 9781 DW Roberts (DWR 798). Isolated from soil sample SS 2097. 13 Aug 2008. USA: Brown County, Nebraska.
- 9782 DW Roberts (DWR 799). Isolated from soil sample SS 2002. 7 Aug 2008. USA: Lincoln County, Nebraska. N 41.38876, W 100.87933.
- 9783 DW Roberts (DWR 800). Isolated from soil sample SS 2001. 7 Aug 2008. USA: Lincoln County, Nebraska. N 41.27452, W 100.81027.
- 9784 DW Roberts (DWR 801). Isolated from soil sample SS 2147. 12 Aug 2008. USA: Cherry County, Nebraska.
- 9785 DW Roberts (DWR 802). Isolated from soil sample SS 2160. 12 Aug 2008. USA: Cherry County, Nebraska.
- 9786 DW Roberts (DWR 803). Isolated from soil sample SS 2166. 12 Aug 2008. USA: Cherry County, Nebraska.
- 9787 DW Roberts (DWR 804). Isolated from soil sample SS 1993. 6 Aug 2008. USA: Lincoln County, Nebraska. N 40.84353, W 100.84871.
- 9788 DW Roberts (DWR 805). Isolated from soil sample SS 1881. 14 Jul 2008. USA: Dundy County, Nebraska. N 40.23282, W 101.56141.
- 9789 DW Roberts (DWR 806). Isolated from soil sample SS 2010. 13 Aug 2008. USA: Hamilton County, Nebraska. N 40.9935, W 98.0458.
- 9790 DW Roberts (DWR 807). Isolated from soil sample SS 2108. 13 Aug 2008. USA: Rock County, Nebraska.
- 9791 DW Roberts (DWR 818). Isolated from soil sample SS 1829. 28 Jul 2008. USA: Garden County, Nebraska. N 41.88721, W 102.083568.
- 9792 DW Roberts (DWR 819). Isolated from soil sample SS 1848. 4 Aug 2008. USA: Cherry County, Nebraska.
- 9793 DW Roberts (DWR 820). Isolated from soil sample SS 1818. 4 Aug 2008. USA: Cherry County, Nebraska.
- 9794 DW Roberts (DWR 821). Isolated from soil sample SS 1762. 8 Jul 2008. USA: Logan County, Nebraska. N 41.618643, W 100.255386.
- 9795 DW Roberts (DWR 822). Isolated from soil sample SS 1784. 8 Jul 2008. USA: Logan County, Nebraska. N 41.656796, W 100.482788.
- 9796 DW Roberts (DWR 823). Isolated from soil sample SS 1757. 8 Jul 2008. USA: Logan County, Nebraska. N 41.625518, W 100.560606.
- 9797 DW Roberts (DWR 824). Isolated from soil sample SS 1822. 4 Aug 2008. USA: Cherry County, Nebraska.
- 9798 DW Roberts (DWR 825). Isolated from soil sample SS 1976. 4 Aug 2008. USA: Lincoln County, Nebraska. N 41.29233, W 100.56179.
- 9799 DW Roberts (DWR 826). Isolated from soil sample SS 1961. 30 Jul 2008. USA: Lincoln County, Nebraska. N 40.72197, W 101.04701.
- 9800 DW Roberts (DWR 827). Isolated from soil sample SS 1978. 4 Aug 2008. USA: Lincoln County, Nebraska. N 41.14745, W 100.34356.
- 9801 DW Roberts (DWR 828). Isolated from soil sample SS 1980. 4 Aug 2008. USA: Lincoln County, Nebraska. N 41.27886, W 100.25481.
- 9802 DW Roberts (DWR 829). Isolated from soil sample SS 1971. 4 Aug 2008. USA: Lincoln County, Nebraska. N 41.1617, W 100.52449.

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- 9803 DW Roberts (DWR 830). Isolated from soil sample SS 1979. 4 Aug 2008. USA: Lincoln County, Nebraska. N 41.20653, W 100.63889.
- 9804 DW Roberts (DWR 831). Isolated from soil sample SS 1817. 4 Aug 2008. USA: Cherry County, Nebraska.
- 9805 DW Roberts (DWR 832). Isolated from soil sample SS 1849. 4 Aug 2008. USA: Cherry County, Nebraska.
- 9806 DW Roberts (DWR 833). Isolated from soil sample SS 1821. 4 Aug 2008. USA: Cherry County, Nebraska.
- 9807 DW Roberts (DWR 834). Isolated from soil sample SS 1824. 4 Aug 2008. USA: Cherry County, Nebraska.
- 9808 DW Roberts (DWR 835). Isolated from soil sample SS 1837. 28 Jul 2008. USA: Garden County, Nebraska. N 41.745232, W 102.09816.
- 9809 DW Roberts (DWR 836). Isolated from soil sample SS 1761. 8 Jul 2008. USA: Logan County, Nebraska. N 41.663922, W 100.58301.
- 9810 DW Roberts (DWR 837). Isolated from soil sample SS 1768. 9 Jul 2008. USA: Logan County, Nebraska. N 41.509798, W 100.50321.
- 9811 DW Roberts (DWR 838). Isolated from soil sample SS 1767. 9 Jul 2008. USA: Logan County, Nebraska. N 41.499958, W 100.65601.
- 9812 DW Roberts (DWR 839). Isolated from soil sample SS 1861. 4 Aug 2008. USA: Cherry County, Nebraska.
- 9813 DW Roberts (DWR 840). Isolated from soil sample SS 1764. 9 Jul 2008. USA: Logan County, Nebraska. N 41.60121, W 100.48712.
- 9814 DW Roberts (DWR 841). Isolated from soil sample SS 1796. 10 Jul 2008. USA: Garden County, Nebraska. N 41.496972, W 102.16906.
- 9815 DW Roberts (DWR 842). Isolated from soil sample SS 1794. Jul 2008. USA: Garden County, Nebraska. N 41.45043, W 102.53968.
- 9816 DW Roberts (DWR 843). Isolated from soil sample SS 1807. 10 Jul 2008. USA: Garden County, Nebraska. N 41.57408, W 101.98632.
- 9817 DW Roberts (DWR 844). Isolated from soil sample SS 5017. 20 Jun 2008. USA: Bottineau County, North Dakota. N 48.9084, W 100.9028.
- 9818 DW Roberts (DWR 845). Isolated from soil sample SS 1770, colony 1. 9 Jul 2008. USA: Logan County, Nebraska. N 41.401728, W 100.71314.
- 9819 DW Roberts (DWR 846). Isolated from soil sample SS 1770, colony 2. 9 Jul 2008. USA: Logan County, Nebraska. N 41.401728, W 100.71314.
- 9820 DW Roberts (DWR 847). Isolated from soil sample SS 2156. 12 Aug 2008. USA: Cherry County, Nebraska.
- 9821 DW Roberts (DWR 848). Isolated from soil sample SS 2158. 12 Aug 2008. USA: Cherry County, Nebraska.
- 9822 DW Roberts (DWR 849). Isolated from soil sample SS 2127. 13 Aug 2008. USA: Rock County, Nebraska.
- 9823 DW Roberts (DWR 850). Isolated from soil sample SS 1880. 14 Jul 2008. USA: Dundy County, Nebraska. N 40.06474, W 101.92653.
- 9824 DW Roberts (DWR 851). Isolated from soil sample SS 1891. 17 Jul 2008. USA: Keith County, Nebraska. N 41.1096, W 101.42634.
- 9825 DW Roberts (DWR 852). Isolated from soil sample SS 2124. 13 Aug 2008. USA: Rock County, Nebraska.
- 9826 DW Roberts (DWR 853). Isolated from soil sample SS 2178. 12 Aug 2008. USA: Cherry County, Nebraska.
- 9827 DW Roberts (DWR 866). Isolated from soil sample SS 4709. 9 Jul 2008. USA: Sherman County, Texas. N 36.36449, W 101.82351.
- 9828 DW Roberts (DWR 867). Isolated from soil sample SS 5007, colony 1. 20 Jun 2008. USA: Bottineau County, North Dakota. N 48.7629, W 101.05992.
- 9829 DW Roberts (DWR 868). Isolated from soil sample SS 5007, colony 2. 20 Jun 2008. USA: Bottineau County, North Dakota. N 48.7629, W 101.05992.
- 9830 DW Roberts (DWR 869). Isolated from soil sample SS 4735. 9 Jun 2008. USA: Scurry County, Texas. N 32.58142, W 100.7636.
- 9831 DW Roberts (DWR 870). Isolated from soil sample SS 5009. 20 Jun 2008. USA: Rolette County, North Dakota. N 48.89218, W 99.61078.
- 9832 DW Roberts (DWR 871). Isolated from soil sample SS 5013. 20 Jun 2008. USA: Bottineau County, North Dakota. N 48.82803, W 100.53342.
- 9833 DW Roberts (DWR 872). Isolated from soil sample SS 5002. 20 Jun 2008. USA: McHenry County, North Dakota. N 47.94912, W 100.5646.
- 9834 DW Roberts (DWR 873). Isolated from soil sample SS 5011. 20 Jun 2008. USA: McHenry County, North Dakota. N 48.4176, W 100.5044.
- 9835 DW Roberts (DWR 880). Isolated from soil sample SS 6887. 5 Jun 2008. USA: Box Elder County, Utah. N 41.5381, W 112.2945.
- 9836 DW Roberts (DWR 881). Isolated from soil sample SS 5434. 16 Jun 2008. USA: Ziebach County, South Dakota. N 44.856118, W 101.62287.
- 9837 DW Roberts (DWR 882). Isolated from soil sample SS 7545. 5 Aug 2008. USA: Kane County, Utah. N 37.3035, W 112.5307.
- 9838 DW Roberts (DWR 900). Isolated from soil sample SS 5001. 20 Jun 2008. USA: Bottineau County, North Dakota. N 48.6322, W 100.49775.
- 9839 DW Roberts (DWR 911). Isolated from soil sample SS 6096. Jul 2008. USA: Dale Widhalm, Nebraska. N 42.498915, W 103.06709.
- 9840 DW Roberts (DWR 912). Isolated from soil sample SS 5754. 9 Jun 2008. USA: Shannon County, South Dakota. N 43.329085, W 102.18772.
- 9841 DW Roberts (DWR 913). Isolated from soil sample SS 5709. 17 Jun 2008. USA: Bennett County, South Dakota. N 43.1035, W 101.4565.

- 9842 DW Roberts (DWR 914). Isolated from soil sample SS 4840, colony 1. 11 Aug 2008. USA: Cheyenne, Wyoming. N 41.591662, W 104.82588.
- 9843 DW Roberts (DWR 915). Isolated from soil sample SS 4840, colony 2. 11 Aug 2008. USA: Cheyenne, Wyoming. N 41.591662, W 104.82588.
- 9844 DW Roberts (DWR 916). Isolated from soil sample SS 4998. 19 Jun 2008. USA: Bottineau County, North Dakota. N 48.8768, W 100.5499.
- 9845 DW Roberts (DWR 917). Isolated from soil sample SS 5033. 16 Jun 2008. USA: KM007, North Dakota.
- 9846 DW Roberts (DWR 918). Isolated from soil sample SS 5810. 12 Jun 2008. USA: Tripp County, South Dakota. N 43.4999, W 100.15615.
- 9847 DW Roberts (DWR 919). Isolated from soil sample SS 5823. 10 Jun 2008. USA: Tripp County, South Dakota. N 43.11112, W 99.63258.
- 9848 DW Roberts (DWR 920). Isolated from soil sample SS 5797. 25 Jun 2008. USA: Todd County, South Dakota. N 43.031315, W 100.82642.
- 9849 DW Roberts (DWR 940). Isolated from soil sample SS 6157, colony 1. 19 Aug 2008. USA: Dale Widhalm, Nebraska. N 42.91601, W 102.23549.
- 9850 DW Roberts (DWR 941). Isolated from soil sample SS 6157, colony 2. 19 Aug 2008. USA: Dale Widhalm, Nebraska. N 42.91601, W 102.23549.
- 9851 DW Roberts (DWR 942). Isolated from soil sample SS 6025. 21 Aug 2008. USA: Morrill County, Nebraska. N 41.769015, W 102.77199.
- 9852 DW Roberts (DWR 1145). Isolated from soil sample SS 8234. 11 Aug 2008. USA: Hooker County, Nebraska. N 41.947793, W 101.15769.
- 9853 DW Roberts (DWR 1146). Isolated from soil sample SS 8235. 11 Aug 2008. USA: Hooker County, Nebraska. N 41.938688, W 101.16618.
- 9854 DW Roberts (DWR 1147). Isolated from soil sample SS 8139. 18 Aug 2008. USA: McPherson County, Nebraska. N 41.554742, W 101.13753.
- 9855 DW Roberts (DWR 1148). Isolated from soil sample SS 8178. 2 Sep 2008. USA: Cherry County, Nebraska. N 42.392913, W 102.02336.
- 9856 DW Roberts (DWR 1149). Isolated from soil sample SS 8241. 11 Aug 2008. USA: Hooker County, Nebraska. N 42.065106, W 101.22523.
- 9857 DW Roberts (DWR 1150). Isolated from soil sample SS 8244. 12 Aug 2008. USA: McPherson County, Nebraska. N 41.43899, W 101.29071.
- 9858 DW Roberts (DWR 1151). Isolated from soil sample SS 8246. 12 Aug 2008. USA: McPherson County, Nebraska. N 41.50433, W 101.30459.
- 9859 DW Roberts (DWR 1152). Isolated from soil sample SS 8247. 12 Aug 2008. USA: McPherson County, Nebraska. N 41.712238, W 101.04815.
- 9860 DW Roberts (DWR 1153). Isolated from soil sample SS 8251. 12 Aug 2008. USA: McPherson County, Nebraska. N 41.622606, W 101.01916.
- 9861 DW Roberts (DWR 1154). Isolated from soil sample SS 8254. 14 Aug 2008. USA: McPherson County, Nebraska. N 41.40625, W 100.88149.
- 9862 DW Roberts (DWR 1155). Isolated from soil sample SS 8258. 14 Aug 2008. USA: McPherson County, Nebraska. N 41.590482, W 100.76789.
- 9863 DW Roberts (DWR 1156). Isolated from soil sample SS 8264. Aug 2008. USA: Arthur County, Nebraska. N 41.546803, W 101.71407.
- 9864 DW Roberts (DWR 1157). Isolated from soil sample SS 8266. Aug 2008. USA: Arthur County, Nebraska. N 41.46896, W 101.71834.
- 9865 DW Roberts (DWR 1158). Isolated from soil sample SS 8267. Aug 2008. USA: Arthur County, Nebraska. N 41.51462, W 101.6547.
- 9866 DW Roberts (DWR 1159). Isolated from soil sample SS 8269. 18 Aug 2008. USA: McPherson County, Nebraska. N 41.49292, W 100.96312.
- 9867 DW Roberts (DWR 1160). Isolated from soil sample SS 8271. 18 Aug 2008. USA: McPherson County, Nebraska. N 41.6699, W 101.26817.
- 9868 DW Roberts (DWR 1161). Isolated from soil sample SS 8253, colony 1. 14 Aug 2008. USA: McPherson County, Nebraska. N 41.451978, W 100.94959.
- 9869 DW Roberts (DWR 1162). Isolated from soil sample SS 8253, colony 2. 14 Aug 2008. USA: McPherson County, Nebraska. N 41.451978, W 100.94959.
- 9870 DW Roberts (DWR 1163). Isolated from soil sample SS 8253, colony 3. 14 Aug 2008. USA: McPherson County, Nebraska. N 41.451978, W 100.94959.
- 9871 DW Roberts (DWR 1164). Isolated from soil sample SS 8253, colony 4. 14 Aug 2008. USA: McPherson County, Nebraska. N 41.451978, W 100.94959.
- 9872 DW Roberts (DWR 1165). Isolated from soil sample SS 8253, colony 5. 14 Aug 2008. USA: McPherson County, Nebraska. N 41.451978, W 100.94959.
- 9873 DW Roberts (DWR 1166). Isolated from soil sample SS 8253, colony 6. 14 Aug 2008. USA: McPherson County, Nebraska. N 41.451978, W 100.94959.
- 9874 DW Roberts (DWR 1180). Isolated from soil sample SS 8218. 6 Aug 2008. USA: Hooker County, Nebraska. N 41.960753, W 100.91898.
- 9875 DW Roberts (DWR 1181). Isolated from soil sample SS 8222. 6 Aug 2008. USA: Hooker County, Nebraska. N 41.865045, W 100.95781.
- 9876 DW Roberts (DWR 1182). Isolated from soil sample SS 8225. 7 Aug 2008. USA: Grant County, Nebraska. N 41.742956, W 101.85894.
- 9877 DW Roberts (DWR 1183). Isolated from soil sample SS 8228. 11 Aug 2008. USA: Hooker County, Nebraska. N 41.996628, W 101.15073.
- 9878 DW Roberts (DWR 1184). Isolated from soil sample SS 8236. 11 Aug 2008. USA: Hooker County, Nebraska. N 41.757416, W 101.37261.

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- 9879 DW Roberts (DWR 1239). Isolated from soil sample SS 7552. 6 Aug 2008. USA: Garfield County, Utah. N 38.0259, W 111.5806.
- 9880 DW Roberts (DWR 1240). Isolated from soil sample SS 8103. 24 Jul 2008. USA: McCone County, Montana. N 47.49494, W 106.16025.
- 9881 DW Roberts (DWR 1241). Laboratory isolate from sector of DWR 850 (=ARSEF 9823). Rec'd 23 Feb 2010.
- 9882 DW Roberts (DWR 1242). Laboratory isolate from sector of DWR 852 (=ARSEF 9825). Rec'd 23 Feb 2010.
- 9883 DW Roberts (DWR 1243). Laboratory isolate from sector of DWR 882 (=ARSEF 9837). Rec'd 23 Feb 2010.
- 9884 DW Roberts (DWR 1244). Laboratory isolate from sector of DWR 900 (=ARSEF 9838). Rec'd 23 Feb 2010.
- 9885 DW Roberts (DWR 1245). Isolated from soil sample SS 9210. 5 Sep 2008. USA: Rio Blanco County, Colorado. N 40.054117, W 107.52914.
- 9886 DW Roberts (DWR 1246). Isolated from soil sample SS 9162. 10 Jun 2008. USA: Garfield County, Colorado. N 39.5094, W 108.5523.
- 9946 DW Roberts (DWR 1247). Isolated from soil sample SS 11293. 5 May 2009. USA: Owyhee County, Idaho. N 42.77266, W 116.22753.
- 9947 DW Roberts (DWR 1248). Isolated from soil sample SS 7425. 17 Jun 2008. USA: Kane County, Utah. N 37.2331, W 111.5058.
- 9948 DW Roberts (DWR 1249). Isolated from soil sample SS 11283. 22 Apr 2009. USA: Ada County, Idaho. N 43.591977, W 116.29609.
- 9949 DW Roberts (DWR 1250). Isolated from soil sample SS 11282. 22 Apr 2009. USA: Ada County, Idaho. N 43.606707, W 116.29985.
- 9950 DW Roberts (DWR 1251). Isolated from soil sample SS 8873. 9 Jul 2008. USA: Kit Carson County, Colorado. N 39.533371, W 102.3518.
- 9951 DW Roberts (DWR 1252). Isolated from soil sample SS 8830. 7 Jul 2008. USA: Custer County, Colorado. N 38.242365, W 105.60512.
- 9952 DW Roberts (DWR 1253). Isolated from soil sample SS 8871, colony 1. 9 Jul 2008. USA: Yuma County, Colorado. N 39.657776, W 102.34647.
- 9953 DW Roberts (DWR 1254). Isolated from soil sample SS 8871, colony 2. 9 Jul 2008. USA: Yuma County, Colorado. N 39.657776, W 102.34647.
- 9954 DW Roberts (DWR 1255). Isolated from soil sample SS 8829, colony 1. 6 Jul 2008. USA: Custer County, Colorado. N 38.186258, W 105.48395.
- 9955 DW Roberts (DWR 1256). Isolated from soil sample SS 8829, colony 2. 6 Jul 2008. USA: Custer County, Colorado. N 38.186258, W 105.48395.
- 9956 DW Roberts (DWR 1280). Isolated from soil sample SS 11295. May 2009. USA: Ada County, Idaho. N 43.673185, W 116.09569.
- 9957 DW Roberts (DWR 1281). Isolated from soil sample SS 9008. 30 Jun 2008. USA: Yuma County, Colorado. N 40.322455, W 102.47124.
- 9958 DW Roberts (DWR 1282). Isolated from soil sample SS 9012. 23 Jun 2008. USA: Kiowa County, Colorado. N 38.498728, W 102.62044.
- 9959 DW Roberts (DWR 1283). Isolated from soil sample SS 9015. 23 Jun 2008. USA: Kiowa County, Colorado. N 38.577521, W 102.43525.
- 9960 DW Roberts (DWR 1284). Isolated from soil sample SS 9219. 14 Sep 2008. USA: Moffat County, Colorado. N 40.75813, W 108.13102.
- 9961 DW Roberts (DWR 1285). Isolated from soil sample SS 9240. 16 Jun 2008. USA: Routt County, Colorado. N 40.757398, W 106.96398.
- 9962 DW Roberts (DWR 1286). Isolated from soil sample SS 9312. Jul 2008. USA: Routt County, Colorado. N 40.526025, W 107.42595.
- 9963 DW Roberts (DWR 1287). Isolated from soil sample SS 9371. 10 Jul 2008. USA: Rio Blanco County, Colorado. N 39.9191, W 108.1981.
- 9964 DW Roberts (DWR 1288). Isolated from soil sample SS 9509. 10 Jul 2008. USA: Montezuma County, Colorado. N 37.302205, W 108.64121.
- 9965 DW Roberts (DWR 1289). Isolated from soil sample SS 11268. 24 Apr 2009. USA: San Carlos, Arizona. N 33.19364, W 109.87296.
- 9966 DW Roberts (DWR 1290). Isolated from soil sample SS 11352. 21 May 2009. USA: Dawson County, Texas. N 32.75586, W 101.81042.
- 9967 DW Roberts (DWR 1291). Isolated from soil sample SS 11354. 21 May 2009. USA: Dawson County, Texas. N 32.84218, W 102.10146.
- 9968 DW Roberts (DWR 1292). Isolated from soil sample SS 11364. 18 May 2009. USA: Lamb County, Texas. N 34.15683, W 102.51517.
- 9969 DW Roberts (DWR 1293). Isolated from soil sample SS 9092, colony 1. 19 Jun 2008. USA: San Miguel County, Colorado. N 38.11362, W 108.39393.
- 9970 DW Roberts (DWR 1294). Isolated from soil sample SS 9092, colony 2. 19 Jun 2008. USA: San Miguel County, Colorado. N 38.11362, W 108.39393.
- 9971 DW Roberts (DWR 1295). Isolated from soil sample SS 9438. 27 Jun 2008. USA: El Paso County, Colorado. N 38.974117, W 104.83964.
- 9972 DW Roberts (DWR 1296). Isolated from soil sample SS 9367. 3 Jul 2008. USA: Gunnison County, Colorado. N 38.45035, W 107.33075.
- 9973 DW Roberts (DWR 1297). Isolated from soil sample SS 9425. 25 Jun 2008. USA: Fremont County, Colorado. N 38.371452, W 104.95982.

- 9974 DW Roberts (DWR 1310). Isolated from soil sample SS 9490. 27 May 2008. USA: Montezuma County, Colorado. N 37.4159, W 108.41041.
- 9975 DW Roberts (DWR 1324). Isolated from soil sample SS 11418. 28 May 2009. USA: Hall County, Texas. N 34.49323, W 100.77875.
- 9976 DW Roberts (DWR 1325). Isolated from soil sample SS 11454. 9 Jun 2009. USA: Logan, Utah.
- 9977 DW Roberts (DWR 1326). Isolated from soil sample SS 11457. 9 Jun 2009. USA: Logan, Utah.
- 9978 DW Roberts (DWR 1327). Isolated from soil sample SS 9443. 27 May 2008. USA: Montezuma County, Colorado. N 37.36007, W 108.53522.
- 9979 DW Roberts (DWR 1337). Isolated from soil sample SS 9659. 27 Aug 2008. USA: Routt County, Colorado. N 40.53094, W 106.78185.
- 9980 DW Roberts (DWR 1338). Isolated from soil sample SS 11642. 20 May 2009. USA: Elko County, Nevada. N 41.619382, W 116.12888.
- 9981 DW Roberts (DWR 1344). Isolated from soil sample SS 9768. 19 May 2008. USA: Flathead County, Montana.
- 9982 DW Roberts (DWR 1345). Isolated from soil sample SS 9788. 2 Jun 2008. USA: Lake County, Montana.
- 9983 DW Roberts (DWR 1346). Isolated from soil sample SS 9791. 5 Jun 2008. USA: Lake County, Montana.
- 9984 DW Roberts (DWR 1347). Isolated from soil sample SS 8494. 8 Jun 2008. USA: Lincoln County, Colorado. N 38.806141, W 103.27433.
- 9985 DW Roberts (DWR 1361). Isolated from soil sample SS 11974. 8 Jun 2009. USA: Piute County, Utah. N 38.4064, W 112.2541.
- 9986 DW Roberts (DWR 1362). Isolated from soil sample SS 8307. 21 Aug 2008. USA: Arthur County, Nebraska. N 41.496172, W 101.92478.
- 9987 DW Roberts (DWR 1374). Isolated from soil sample SS 8510. 2 Jun 2008. USA: Otero County, Colorado. N 37.878558, W 103.52731.
- 9988 DW Roberts (DWR 1375). Isolated from soil sample SS 8491. 8 Jun 2008. USA: Lincoln County, Colorado. N 38.878685, W 103.4237.
- 9989 DW Roberts (DWR 1376). Isolated from soil sample SS 8786. 10 Jun 2008. USA: Otero County, Colorado. N 37.823345, W 103.77136.
- 9990 DW Roberts (DWR 1377). Isolated from soil sample SS 8428. 4 Jun 2008. USA: Baca County, Colorado. N 37.549681, W 102.40117.
- 9991 DW Roberts (DWR 1378). Isolated from soil sample SS 8446. 17 Jun 2008. USA: Kiowa County, Colorado. N 38.281875, W 102.61859.
- 9992 DW Roberts (DWR 1379). Isolated from soil sample SS 8445. 17 Jun 2008. USA: Kiowa County, Colorado. N 38.354065, W 102.61896.
- 9993 DW Roberts (DWR 1380). Isolated from soil sample SS 8707. 7 Jul 2008. USA: Yuma County, Colorado. N 39.946951, W 102.46771.
- 9994 DW Roberts (DWR 1381). Isolated from soil sample SS 8426. 4 Jun 2008. USA: Prowers County, Colorado. N 37.672625, W 102.52934.
- 9995 DW Roberts (DWR 1382). Isolated from soil sample SS 8424. 4 Jun 2008. USA: Prowers County, Colorado. N 37.767233, W 102.54751.
- 9996 DW Roberts (DWR 1387). Isolated from soil sample SS 8538. 7 Jul 2008. USA: Kiowa County, Colorado. N 38.463823, W 102.19764.
- 9997 DW Roberts (DWR 1395). Isolated from soil sample SS 8539. 7 Jul 2008. USA: Kiowa County, Colorado. N 38.499155, W 102.32726.
- 9998 DW Roberts (DWR 1399). Isolated from soil sample SS 11485. 6 May 2009. USA: Duchesne County, Utah. N 40.2356, W 110.2345.
- 9999 DW Roberts (DWR 1408). Isolated from soil sample SS 9823. 3 Jun 2008. USA: Montana.
- 10001 DW Roberts (DWR 1409). Isolated from soil sample SS 9888. 14 Oct 2008. USA: Keya Paha County, Nebraska.
- 10002 DW Roberts (DWR 1410). Isolated from soil sample SS 9878. 14 Oct 2008. USA: Cherry County, Nebraska.
- 10003 DW Roberts (DWR 1411). Isolated from soil sample SS 9853. 14 Oct 2008. USA: Holt County, Nebraska.
- 10004 DW Roberts (DWR 1412). Isolated from soil sample SS 8762. 14 Jul 2008. USA: Las Animas County, Colorado. N 37.191093, W 104.81278.
- 10005 DW Roberts (DWR 1413). Isolated from soil sample SS 9875. 14 Oct 2008. USA: Cherry County, Nebraska.
- 10006 DW Roberts (DWR 1414). Isolated from soil sample SS 9872. 14 Oct 2008. USA: Cherry County, Nebraska.
- 10007 DW Roberts (DWR 1415). Isolated from soil sample SS 9832. 14 Oct 2008. USA: Holt County, Nebraska.
- 10008 DW Roberts (DWR 1416). Isolated from soil sample SS 9857. 14 Oct 2008. USA: Holt County, Nebraska.
- 10009 DW Roberts (DWR 1417). Isolated from soil sample SS 11932. 6 May 2009. USA: Elko County, Nevada. N 41.956545, W 116.07283.
- 10010 DW Roberts (DWR 1418). Isolated from soil sample SS 9837. 14 Oct 2008. USA: Holt County, Nebraska.
- 10011 DW Roberts (DWR 1419). Isolated from soil sample SS 9830. 14 Oct 2008. USA: Holt County, Nebraska.
- 10012 DW Roberts (DWR 1420). Isolated from soil sample SS 10612. 17 Jun 2008. USA: Elko County, Nevada. N 40.808943, W 115.3402.
- 10013 DW Roberts (DWR 1421). Isolated from soil sample SS 10241. 29 Aug 2008. USA: Ford County, Kansas. N 37.482133, W 99.729295.

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- 10014 DW Roberts (DWR 1422). Isolated from soil sample SS 10291. 4 Aug 2008. USA: Cheyenne County, Kansas. N 39.68884, W 101.99388.
- 10015 DW Roberts (DWR 1446). Isolated from soil sample SS 10706. 3 Sep 2008. USA: Humboldt County, Nevada. N 40.927495, W 118.3082.
- 10016 DW Roberts (DWR 1447). Isolated from soil sample SS 10809. 6 Aug 2008. USA: Elko County, Nevada. N 41.46017, W 114.7825.
- 10017 DW Roberts (DWR 1448). Isolated from soil sample SS 11936. 28 May 2009. USA: Valley County, Idaho. N 44.805338, W 115.90302.
- 10018 DW Roberts (DWR 1449). Isolated from soil sample SS 10119. 22 Jul 2008. USA: Clark County, Kansas. N 37.191885, W 99.785528.
- 10019 DW Roberts (DWR 1450). Isolated from soil sample SS 10437. 2 May 2008. USA: Elko County, Nevada. N 41.535187, W 115.82186.
- 10020 DW Roberts (DWR 1451). Isolated from soil sample SS 10284. 23 Jul 2008. USA: Comanche County, Kansas. N 37.266482, W 99.26767.
- 10021 DW Roberts (DWR 1468). Isolated from soil sample SS 12110. 10 Jun 2009. USA: Carson County, Texas. N 35.57465, W 101.40082.
- 10022 DW Roberts (DWR 1469). Isolated from soil sample SS 11259. 17 Jun 2009. USA: Millard County, Utah. N 39.1157, W 114.0025.
- 10023 DW Roberts (DWR 1470). Isolated from soil sample SS 12131. 16 Jun 2009. USA: Moore County, Texas. N 35.69076, W 102.05242.
- 10024 DW Roberts (DWR 1471). Isolated from soil sample SS 11004, colony 1. 11 Jun 2008. USA: Lander County, Nevada. N 39.495452, W 117.1604.
- 10025 DW Roberts (DWR 1472). Isolated from soil sample SS 11004, colony 2. 11 Jun 2008. USA: Lander County, Nevada. N 39.495452, W 117.1604.
- 10026 DW Roberts (DWR 1473). Isolated from soil sample SS 11004, colony 3. 11 Jun 2008. USA: Lander County, Nevada. N 39.495452, W 117.1604.
- 10027 DW Roberts (DWR 1489). Isolated from soil sample SS 12736. 10 Jun 2009. USA: Adams County, Washington. N 47.13699, W 118.1721.
- 10028 DW Roberts (DWR 1490). Isolated from soil sample SS 13846. 24 Jun 2009. USA: Weld County, Colorado. N 40.192916, W 104.6822.
- 10029 DW Roberts (DWR 1491). Isolated from soil sample SS 13860. 24 Jun 2009. USA: Weld County, Colorado. N 40.144745, W 104.768.
- 10030 DW Roberts (DWR 1506). Isolated from soil sample SS 13934. 4 Jun 2009. USA: Morgan County, Colorado. N 40.07361, W 104.0186.
- 10031 DW Roberts (DWR 1507). Isolated from soil sample SS 12754. 17 Jun 2009. USA: Douglas County, Washington. N 47.90269, W 119.797.
- 10032 DW Roberts (DWR 1516). Isolated from soil sample SS 13583. 21 Jul 2009. USA: Fremont County, Idaho. N 44.11919, W 111.34764.
- 10033 DW Roberts (DWR 1517). Isolated from soil sample SS 13762. 27 May 2009. USA: Yuma County, Colorado. N 39.795876, W 102.5602.
- 10034 DW Roberts (DWR 1518). Isolated from soil sample SS 13776, colony 1. 28 May 2009. USA: Yuma County, Colorado. N 39.858866, W 102.801.
- 10035 DW Roberts (DWR 1519). Isolated from soil sample SS 13776, colony 2. 28 May 2009. USA: Yuma County, Colorado. N 39.858866, W 102.801.
- 10036 DW Roberts (DWR 1520). Isolated from soil sample SS 13185. 16 Jun 2009. USA: Elbert County, Colorado. N 39.228926, W 103.879.
- 10037 DW Roberts (DWR 1527). Isolated from soil sample SS 13102. 9 Jul 2009. USA: Las Animas County, Colorado. N 37.11295, W 105.0368.
- 10038 DW Roberts (DWR 1528). Isolated from soil sample SS 13749. 27 May 2009. USA: Washington County, Colorado. N 39.624913, W 103.1231.
- 10039 DW Roberts (DWR 1540). Isolated from soil sample SS 13174. 22 Jun 2009. USA: Arapahoe County, Colorado. N 39.653608, W 104.1537.
- 10040 DW Roberts (DWR 1541). Isolated from soil sample SS 14492. 7 Jul 2009. USA: Bent County, Colorado. N 37.91052, W 102.8581.
- 10041 DW Roberts (DWR 1542). Isolated from soil sample SS 12606. 23 Jun 2009. USA: Ochiltree County, Texas. N 36.421, W 101.364.
- 10042 DW Roberts (DWR 1543). Isolated from soil sample SS 12638. 24 Jun 2009. USA: Hansford County, Texas. N 36.19773, W 101.22712.
- 10043 DW Roberts (DWR 1544). Isolated from soil sample SS 12640. 25 Jun 2009. USA: Hutchinson County, Texas. N 35.95214, W 101.22674.
- 10044 DW Roberts (DWR 1545). Isolated from soil sample SS 14964. 5 Jun 2009. USA: Routt County, Colorado. N 40.499741, W 107.2291.
- 10045 DW Roberts (DWR 1546). Isolated from soil sample SS 14981. 22 Jun 2009. USA: Routt County, Colorado. N 40.365231, W 106.7475.
- 10046 DW Roberts (DWR 1547). Isolated from soil sample SS 15007. 24 Jun 2009. USA: Baca County, Colorado. N 37.264538, W 102.7783.
- 10047 DW Roberts (DWR 1548). Isolated from soil sample SS 15025. 27 Jun 2009. USA: Routt County, Colorado. N 40.735816, W 107.1246.
- 10048 DW Roberts (DWR 1553). Isolated from soil sample SS 16368. 11 Aug 2009. USA: Okanogan County, Washington. N 48.24863, W 118.89864.
- 10049 DW Roberts (DWR 1554). Isolated from soil sample SS 17125. 16 Jul 2009. USA: Goshen County, Wyoming. N 42.184521, W 104.45296.

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- 10050 DW Roberts (DWR 1555). Isolated from soil sample SS 16143. 5 Aug 2009. USA: Judith Basin County, Montana. N 47.16631, W 110.7234.
- 10051 DW Roberts (DWR 1556). Isolated from soil sample SS 16299. 27 Jul 2009. USA: Ravalli County, Montana.
- 10052 DW Roberts (DWR 1557). Isolated from soil sample SS 17105. 6 Jul 2009. USA: Goshen County, Wyoming. N 42.047107, W 104.3445.
- 10053 DW Roberts (DWR 1580). Isolated from soil sample SS 14593. 9 Jul 2009. USA: Las Animas County, Colorado. N 37.280046, W 103.2653.
- 10054 DW Roberts (DWR 1581). Isolated from soil sample SS 16330. 11 Aug 2009. USA: Sanders, Montana. N 48.08786, W 116.0055.
- 10055 DW Roberts (DWR 1582). Isolated from soil sample SS 14058. 5 Jun 2009. USA: Morgan County, Colorado. N 40.146715, W 103.5101.
- 10056 DW Roberts (DWR 1583). Isolated from soil sample SS 14218. 4 Aug 2009. USA: Iron County, Utah. N 37.3221, W 113.0306.
- 10057 DW Roberts (DWR 1584). Isolated from soil sample SS 14595. 8 Jul 2009. USA: Baca County, Colorado. N 37.557158, W 102.9408.
- 10058 DW Roberts (DWR 1591). Isolated from soil sample SS 15781. 2 Jun 2009. USA: Tripp County, South Dakota. N 43.162, W 99.8701.
- 10059 DW Roberts (DWR 1592). Isolated from soil sample SS 15770. 16 Jun 2009. USA: Lyman County, South Dakota. N 43.9051, W 99.7065.
- 10060 DW Roberts (DWR 1601). Isolated from soil sample SS 15269. 8 Jun 2009. USA: Shannon County, South Dakota. N 43.4775, W 102.9187.
- 10061 DW Roberts (DWR 1602). Isolated from soil sample SS 17132. 21 Jul 2009. USA: Goshen County, Wyoming. N 42.392979, W 104.35598.
- 10062 DW Roberts (DWR 1610). Isolated from soil sample SS 15087. Jul 2009. USA: Fremont County, Colorado. N 38.696808, W 105.4887.
- 10063 DW Roberts (DWR 1611). Isolated from soil sample SS 17311, colony 1. 28 Jul 2009. USA: Lincoln County, Nevada. N 38.055803, W 114.16724.
- 10064 DW Roberts (DWR 1612). Isolated from soil sample SS 17311, colony 2. 28 Jul 2009. USA: Lincoln County, Nevada. N 38.055803, W 114.16724.
- 10065 DW Roberts (DWR 1613). Isolated from soil sample SS 17311, colony 3. 28 Jul 2009. USA: Lincoln County, Nevada. N 38.055803, W 114.16724.
- 10066 DW Roberts (DWR 1614). Isolated from soil sample SS 16348. 10 Aug 2009. USA: Ferry County, Washington. N 48.334457, W 118.22365.
- 10067 DW Roberts (DWR 1615). Isolated from soil sample SS 14683. 8 Jul 2009. USA: Baca County, Colorado. N 37.599526, W 103.0024.
- 10068 DW Roberts (DWR 1652). Isolated from soil sample SS 15462. 2 Jun 2009. USA: Gregory County, South Dakota. N 43.0389, W 99.076.
- 10069 DW Roberts (DWR 1653). Isolated from soil sample SS 14725, colony 1. 3 Jun 2009. USA: Montrose County, Colorado. N 38.449135, W 109.0525.
- 10070 DW Roberts (DWR 1654). Isolated from soil sample SS 14725, colony 2. 3 Jun 2009. USA: Montrose County, Colorado. N 38.449135, W 109.0525.
- 10071 DW Roberts (DWR 1655). Isolated from soil sample SS 14729. 5 Jun 2009. USA: Montezuma County, Colorado. N 37.469161, W 108.1988.
- 10072 DW Roberts (DWR 1656). Isolated from soil sample SS 14202. 28 Jul 2009. USA: Elko County, Nevada. N 41.870107, W 115.4253.
- 10073 DW Roberts (DWR 1657). Isolated from soil sample SS 14169. 14 Jul 2009. USA: Elko County, Nevada. N 41.800432, W 115.50082.
- 10074 DW Roberts (DWR 1658). Isolated from soil sample SS 14158, colony 1. 4 Jun 2009. USA: Idaho County, Idaho.
- 10075 DW Roberts (DWR 1659). Isolated from soil sample SS 14158, colony 2. 4 Jun 2009. USA: Idaho County, Idaho.
- 10076 DW Roberts (DWR 1660). Isolated from soil sample SS 14424. 27 Jul 2009. USA: Eureka County, Nevada. N 39.943369, W 116.074.
- 10077 DW Roberts (DWR 1683). Isolated from soil sample SS 17491. 16 Jun 2009. USA: Prowers County, Colorado. N 37.838933, W 102.2264.
- 10078 DW Roberts (DWR 1684). Isolated from soil sample SS 17987. 6 Aug 2009. USA: Umatilla County, Oregon.
- 10079 DW Roberts (DWR 1685). Isolated from soil sample SS 15585. 12 Jun 2009. USA: Tripp County, South Dakota. N 43.6229, W 100.18.
- 10080 DW Roberts (DWR 1686). Isolated from soil sample SS 17658. 4 Jul 2009. USA: Bent County, Colorado. N 38.012501, W 102.9669.
- 10081 DW Roberts (DWR 1687). Isolated from soil sample SS 17909. 11 Aug 2009. USA: Gilliam County, Oregon.
- 10082 DW Roberts (DWR 1688). Isolated from soil sample SS 17940. 11 Aug 2009. USA: Morrow County, Oregon.
- 10083 DW Roberts (DWR 1689). Isolated from soil sample SS 17763. 9 Jul 2009. USA: Yuma County, Colorado. N 40.075706, W 102.4637.
- 10084 DW Roberts (DWR 1690). Isolated from soil sample SS 17744. 7 Jul 2009. USA: Kit Carson County, Colorado. N 39.289653, W 102.372.
- 10085 DW Roberts (DWR 1699). Isolated from soil sample SS 15643. 11 Jun 2009. USA: Perkins County, South Dakota. N 45.776343, W 102.7977.

- 10086 DW Roberts (DWR 1700). Isolated from soil sample SS 16653. 21 Jul 2009. USA: Show Low, Arizona. N 34.31598, W 110.33913.
- 10087 DW Roberts (DWR 1701). Isolated from soil sample SS 17701. 5 Jul 2009. USA: Yuma County, Colorado.
- 10088 DW Roberts (DWR 1702). Isolated from soil sample SS 17707. 5 Jul 2009. USA: Yuma County, Colorado.
- 10089 DW Roberts (DWR 1703). Isolated from soil sample SS 14264, colony 1. 20 Jul 2009. USA: Bannock County, Idaho. N 42.8864, W 112.4898.
- 10090 DW Roberts (DWR 1704). Isolated from soil sample SS 14277, colony 1. 27 Jul 2009. USA: Bonneville County, Idaho. N 43.6059, W 111.5146.
- 10091 DW Roberts (DWR 1705). Isolated from soil sample SS 14277, colony 2. 27 Jul 2009. USA: Bonneville County, Idaho. N 43.6059, W 111.5146.
- 10092 DW Roberts (DWR 1706). Isolated from soil sample SS 14306. 6 Aug 2009. USA: Minidoka County, Idaho. N 42.579567, W 113.92838.
- 10093 DW Roberts (DWR 1707). Isolated from soil sample SS 15101. Jul 2009. USA: Fremont County, Colorado. N 38.539323, W 105.7244.
- 10094 DW Roberts (DWR 1708). Isolated from soil sample SS 15122. 24 Jun 2009. USA: Baca County, Colorado. N 37.290136, W 103.0498.
- 10095 DW Roberts (DWR 1709). Isolated from soil sample SS 15922, colony 1. 12 Aug 2009. USA: Okanogan County, Washington. N 48.546579, W 118.97652.
- 10096 DW Roberts (DWR 1710). Isolated from soil sample SS 15922, colony 2. 12 Aug 2009. USA: Okanogan County, Washington. N 48.546579, W 118.97652.
- 10097 DW Roberts (DWR 1714). Isolated from soil sample SS 14264, colony 2. 20 Jul 2009. USA: Bannock County, Idaho. N 42.8864, W 112.4898.
- 10098 DW Roberts (DWR 1715). Isolated from soil sample SS 14264, colony 3. 20 Jul 2009. USA: Bannock County, Idaho. N 42.8864, W 112.4898.
- 10099 DW Roberts (DWR 1716). Isolated from soil sample SS 17770, colony 1. 9 Jul 2009. USA: Kit Carson County, Colorado. N 39.562111, W 102.4253.
- 10100 DW Roberts (DWR 1717). Isolated from soil sample SS 17770, colony 2. 9 Jul 2009. USA: Kit Carson County, Colorado. N 39.562111, W 102.4253.
- 10101 DW Roberts (DWR 1718). Isolated from soil sample SS 15554, colony 1. 10 Jun 2009. USA: Bennett County, South Dakota. N 43.1476, W 101.7323.
- 10102 DW Roberts (DWR 1719). Isolated from soil sample SS 15554, colony 2. 10 Jun 2009. USA: Bennett County, South Dakota. N 43.1476, W 101.7323.
- 10103 DW Roberts (DWR 1720). Isolated from soil sample SS 16081. 22 Jul 2009. USA: Musselshell County, Montana. N 46.2225, W 108.504.
- 10104 DW Roberts (DWR 1721). Isolated from soil sample SS 17821. 14 Aug 2009. USA: Oregon.
- 10105 DW Roberts (DWR 1722). Isolated from soil sample SS 17991. 10 Aug 2009. USA: Umatilla County, Oregon.
- 10106 DW Roberts (DWR 1723). Isolated from soil sample SS 13501. 10 Jun 2009. USA: Elbert County, Colorado. N 39.14357, W 104.2922.
- 10107 DW Roberts (DWR 1740). Isolated from soil sample SS 16903. 20 Aug 2009. USA: Graham County, Arizona. N 32.831492, W 110.14019.
- 10108 DW Roberts (DWR 1741). Isolated from soil sample SS 15618. 1 Jun 2009. USA: Lake County, South Dakota. N 43.88016, W 96.978852.
- 10109 DW Roberts (DWR 1742). Isolated from soil sample SS 15513. 2 Jun 2009. USA: Minnehaha County, South Dakota. N 43.630077, W 96.618407.
- 10110 DW Roberts (DWR 1743). Isolated from soil sample SS 15344. 1 Jul 2009. USA: Corson County, South Dakota. N 45.6247, W 101.1415.
- 10111 DW Roberts (DWR 1744). Isolated from soil sample SS 15136. 25 Jun 2009. USA: Huerfano County, Colorado. N 37.805756, W 104.6537.
- 10112 DW Roberts (DWR 1763). Isolated from soil sample SS 17568. 22 Jun 2009. USA: Kiowa County, Colorado. N 38.322571, W 102.6186.
- 10113 DW Roberts (DWR 1764). Isolated from soil sample SS 17569. 22 Jun 2009. USA: Kiowa County, Colorado. N 38.40456, W 102.6193.
- 10114 DW Roberts (DWR 1765). Isolated from soil sample SS 17559. 22 Jun 2009. USA: Prowers County, Colorado. N 38.165975, W 102.2108.
- 10115 DW Roberts (DWR 1766). Isolated from soil sample SS 17562. 22 Jun 2009. USA: Prowers County, Colorado. N 38.113836, W 102.4122.
- 10116 DW Roberts (DWR 1767). Isolated from soil sample SS 16935. 4 Aug 2009. USA: Coconino County, Arizona. N 34.464008, W 110.97636.
- 10117 DW Roberts (DWR 1771). Isolated from soil sample SS 17536. 21 Jun 2009. USA: Baca County, Colorado. N 37.251095, W 102.4412.
- 10118 DW Roberts (DWR 1808). Isolated from soil sample SS 13232. 8 Jul 2009. USA: Moffat County, Colorado. N 40.429511, W 108.1482.
- 10119 DW Roberts (DWR 1809). Isolated from soil sample SS 16509. 23 Jul 2009. USA: Coconino County, Arizona. N 35.228356, W 111.98011.
- 10120 DW Roberts (DWR 1810). Isolated from soil sample SS 16814. 29 Jul 2009. USA: Coconino County, Arizona. N 35.191634, W 112.27041.
- 10121 DW Roberts (DWR 1811). Isolated from soil sample SS 16860. 29 Jul 2009. USA: Coconino County, Arizona. N 35.164075, W 112.15773.
- 10122 DW Roberts (DWR 1812). Isolated from soil sample SS 18039, colony 1. 4 Nov 2009. USA: Canyon County, Idaho. N 43.33.154, W 116.33.965.

- 10123 DW Roberts (DWR 1813). Isolated from soil sample SS 18039, colony 2. 4 Nov 2009. USA: Canyon County, Idaho. N 43.33.154, W 116.33.965.
- 10124 DW Roberts (DWR 1814). Isolated from soil sample SS 18044. 5 Nov 2009. USA: Canyon County, Idaho. N 43.32.895, W 116.33.093.
- 10125 DW Roberts (DWR 1815). Isolated from soil sample SS 18056. 5 Nov 2009. USA: Owyhee County, Idaho. N 43.32.755, W 116.53.541.
- 10126 DW Roberts (DWR 1844). Isolated from soil sample SS 17853. 5 Aug 2009. USA: Harney County, Oregon. N 42.664078, W 118.4723.
- 10314 DW Roberts (DWR 1845). Isolated from soil sample SS 17873. 13 Aug 2009. USA: Wallowa County, Oregon. N 45.66882, W 116.9404.
- 10315 DW Roberts (DWR 1855). Isolated from soil sample SS 15529. 3 Jun 2009. USA: Tripp County, South Dakota. N 43.2035, W 100.1666.
- 10316 DW Roberts (DWR 1856). Isolated from soil sample SS 15146. 16 Jul 2009. USA: Custer County, Colorado. N 38.088653, W 105.5118.
- 10317 DW Roberts (DWR 1857). Isolated from soil sample SS 18079. Sep 2009. USA: Elko County, Nevada. N 40.775453, W 115.3309.
- 10318 DW Roberts (DWR 1858). Isolated from soil sample SS 15904. 6 Aug 2009. USA: Stevens County, Washington. N 48.713105, W 118.05228.
- 10319 DW Roberts (DWR 1859). Isolated from soil sample SS 14930, colony 1. 4 Jun 2009. USA: Pueblo County, Colorado. N 38.174323, W 104.59353.
- 10320 DW Roberts (DWR 1860). Isolated from soil sample SS 14930, colony 2. 4 Jun 2009. USA: Pueblo County, Colorado. N 38.174323, W 104.59353.
- 10321 DW Roberts (DWR 1908). Isolated from soil sample SS 15883. 12 May 2009. USA: Kootenai County, Idaho. N 47.775148, W 116.96062.
- 10322 DW Roberts (DWR 1909). Isolated from soil sample SS 12891. 8 Jul 2009. USA: Antelope Flats, Point of Pines, Arizona. N 33.357648, W 109.73008.
- 10323 DW Roberts (DWR 1938). Isolated from soil sample SS 15228. Jun 2009. USA: Todd County, South Dakota. N 43.645, W 100.57.
- 10324 DW Roberts (DWR 1942). Isolated from soil sample SS 18100. 17 Nov 2009. USA: North Ocean Springs, Mississippi. N 30.28566, W 88.51151.
- 10325 DW Roberts (DWR 1949). Isolated from soil sample SS 18336. 29 Jun 2009. USA: Bottineau County, North Dakota. N 48.820671, W 100.77505.
- 10326 DW Roberts (DWR 1950). Isolated from soil sample SS 18335. 29 Jun 2009. USA: Bottineau County, North Dakota. N 48.820708, W 100.59431.
- 10327 DW Roberts (DWR 1951). Isolated from soil sample SS 18332. 29 Jun 2009. USA: Bottineau County, North Dakota. N 48.82045, W 100.39461.
- 10328 DW Roberts (DWR 1954). Isolated from soil sample SS 5123. 19 Aug 2008. USA: Sheridan County, Nebraska. N 42.98988, W 102.21945.
- 10329 DW Roberts (DWR 1955). Isolated from soil sample SS 18341, colony 1. 29 Jun 2009. USA: Bottineau County, North Dakota. N 48.574825, W 101.23943.
- 10330 DW Roberts (DWR 1956). Isolated from soil sample SS 18341, colony 2. 29 Jun 2009. USA: Bottineau County, North Dakota. N 48.574825, W 101.23943.
- 10331 DW Roberts (DWR 1957). Isolated from soil sample SS 18341, colony 3. 29 Jun 2009. USA: Bottineau County, North Dakota. N 48.574825, W 101.23943.
- 10332 DW Roberts (DWR 1958). Isolated from soil sample SS 1591. 13 Aug 2008. USA: Grant County, Nebraska. N 41.962825, W 101.50659.
- 10333 DW Roberts (DWR 1971). Isolated from soil sample SS 5120. 18 Aug 2008. USA: Morrill County, Nebraska. N 41.8132, W 103.14888.
- 10334 DW Roberts (DWR 1996). Isolated from soil sample SS 1488. 16 Jul 2008. USA: Franklin County, Washington. N 46.66756, W 118.25021.
- 10335 DW Roberts (DWR 1998). Isolated from soil sample SS 18339. 11 Jun 2008. USA: Bottineau County, North Dakota. N 48.774625, W 101.14656.
- 10336 DW Roberts (DWR 1999). Isolated from soil sample SS 18340. 29 Jun 2009. USA: Bottineau County, North Dakota. N 48.654198, W 101.14718.
- 10337 DW Roberts (DWR 2003). Isolated from soil sample SS 1675, colony 2. 14 Aug 2008. USA: Howard County, Nebraska. N 41.0758, W 98.4988.
- 10338 DW Roberts (DWR 2004). Isolated from soil sample SS 6130, colony 1. 12 Aug 2008. USA: Dale Widhalm, Nebraska. N 41.65222, W 102.85937.
- 10339 DW Roberts (DWR 2005). Isolated from soil sample SS 6130, colony 2. 12 Aug 2008. USA: Dale Widhalm, Nebraska. N 41.65222, W 102.85937.
- 10340 DW Roberts (DWR 2006). Isolated from soil sample SS 4907. 20 Jun 2008. USA: Towner County, North Dakota. N 48.805, W 99.329.
- 10341 DW Roberts (DWR 2007). Isolated from soil sample SS 4908. 20 Jun 2008. USA: Cavalier County, North Dakota. N 48.8197, W 98.6278.
- 10342 DW Roberts (DWR 2008). Isolated from soil sample SS 4904. 12 Jun 2008. USA: Ward County, North Dakota. N 48.05092, W 100.0582.
- 10343 DW Roberts (DWR 2009). Isolated from soil sample SS 5244. 20 Jun 2008. USA: Brule County, South Dakota. N 43.6147, W 98.99251.
- 10344 DW Roberts (DWR 2010). Isolated from soil sample SS 4901, colony 1. 20 Jun 2008. USA: McLean County, North Dakota. N 47.8331, W 100.888.
- 10345 DW Roberts (DWR 2011). Isolated from soil sample SS 4901, colony 2. 20 Jun 2008. USA: McLean County, North Dakota. N 47.8331, W 100.888.

10346 DW Roberts (DWR 2025). Isolated from soil sample SS 4446. May 2008. USA: Hardeman County, Texas. N 34.14822, W 99.7336.

Metarhizium acridum (Driver & Milner) JF Bischoff, SA Rehner & Humber
[Sordariomycetes: Hypocreales]
Clavicipitaceae. Synonym: *Metarhizium anisopliae* var. *acridum*. Placement of isolates here has been genomically confirmed according to the classification of Bischoff et al. (2009).

- 324 [CSIRO FI48] RS Soper ← R Teakle (M-100). *Austracris guttulosa* [Orthoptera: Acrididae]. Feb 1979. Australia: Queensland.
- 3341 [IMI 330189] C Prior. *Ornithacris cavroisi* [Orthoptera: Acrididae]. Rec'd 17 Jun 1991. Niger: ICRISAT, nr. Niamey. Single spore isolate.
- 3391 [FI 1028; IIBC I88-377; IIBC 188-377 ; IMI 324673] *Zonocerus elegans* [Orthoptera: Pyrgomorphidae]. Rec'd 17 Sep 1991. Tanzania.
- 3609 IMI (I91-614). *Patanga succincta* [Orthoptera: Acrididae]. Rec'd 26 Feb 1992. Thailand.
- 3612 IMI (I91-646). *Kraussaria angulifera* [Orthoptera: Acrididae: Cyrtacanthacridinae]. Rec'd 26 Feb 1992. Benin.
- 4605 [DAT 505] AC Rath (F505). *Austracris guttulosa* [Orthoptera: Acrididae]. 29 Sep 1993. Australia: Queensland.
- 5735 ST Jaronski (SP5). [Orthoptera: Acrididae]. Rec'd 12 Jun 1998. Madagascar.
- 5736 ST Jaronski (SP9). *Locusta migratoria capito* [Orthoptera: Acrididae]. 1993. Madagascar.
- 5747 MCHCA Bernal (MaPL14). *Schistocerca piceifrons* [Orthoptera: Acrididae]. 1992. Mexico: Cerro de Ortega, Colima.
- 5748 MCHCA Bernal (MaPL32). *Schistocerca piceifrons* [Orthoptera: Acrididae]. 1992. Mexico: Cerro de Ortega, Colima.
- 5750 MCHCA Bernal (MaPL39). *Schistocerca piceifrons* [Orthoptera: Acrididae]. 1995. Mexico: Isla Socorro, Colima.
- 6421 A Niassy (DPV-1, Khelkom KAN). *Kraussaria angulifera* [Orthoptera: Acrididae: Cyrtacanthacridinae]. Rec'd 7 Dec 1999. Senegal: Khelcom, District of Kaffrine, Region of Kaolack.
- 6592 [IITA 188] A Cherry. Abandoned termite mound. Rec'd 18 Sep 2000. Benin: Koda, Tchaourou, Borgou.
- 6597 [IITA 193] A Cherry. From soil. Rec'd 18 Sep 2000. Benin: Itadjebo, Ouémé.
- 6598 [IITA 194] A Cherry. Abandoned termite mound. Rec'd 18 Sep 2000. Benin: Zinvié, Atlantique.
- 6600 [IITA 196] A Cherry. Rec'd 18 Sep 2000. Benin: Dihø, Save, Zou.

6851 GUL Braga and DW Roberts (DWR 158). 7 Mar 2001. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (yellow) obtained from ARSEF 3341 following UV-B exposure.

6852 GUL Braga and DW Roberts (DWR 159). 7 Mar 2001. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 3341 following UV-B exposure.

6853 GUL Braga and DW Roberts (DWR 160). 6 Feb 2001. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (yellow) obtained from ARSEF 3341 following UV-B exposure.

6854 GUL Braga and DW Roberts (DWR 161). 7 Mar 2001. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 3341 following UV-B exposure.

6855 GUL Braga and DW Roberts (DWR 162). 7 Mar 2001. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 3341 following UV-B exposure.

6856 GUL Braga and DW Roberts (DWR 163). 7 Mar 2001. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 3341 following UV-B exposure.

6857 GUL Braga and DW Roberts (DWR 164). 14 Apr 2000. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 3341 following UV-B exposure.

6858 GUL Braga and DW Roberts (DWR 165). 8 Feb 2001. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 3341 following UV-B exposure.

6859 GUL Braga and DW Roberts (DWR 166). 7 Mar 2001. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 3341 following UV-B exposure.

7486 [CSIRO FI-0987] IMI (330189). *Ornithacris cavroisi* [Orthoptera: Acrididae]. 29 Aug 1992. Niger. Ex-type isolate used by Driver et al. (2000) to describe *M. anisopliae* var. *acridum*.

9592 [ERL 1056] S Gouli (IMI-33/WFT) and V Gouli. 2006.

Metarhizium album Petch
[Sordariomycetes: Hypocreales]
Clavicipitaceae

1840 MC Rombach. *Nephrotettix virescens* [Homoptera: Cicadellidae]. Acc'd 29 Jan 1985. Philippines: IRRI, Los Baños, Manila.

1941 MC Rombach (MPAL) ← DJ Im. *Nephrotettix virescens* [Homoptera: Cicadellidae] on rice. Jul 1985. Philippines: Roxas, Palawan.

1942 MC Rombach (MLAG). *Nephrotettix virescens* [Homoptera: Cicadellidae] on rice. Nov 1984. Philippines: Laguna.

- 1943 MC Rombach (MLAGwhite). *Nephrotettix virescens* [Homoptera: Cicadellidae] on rice. Nov 1984. Philippines: Laguna.
- 2081 MC Rombach ← HC Evans (I85-87) ← MJ Coch. [Homoptera: Cicadellidae] on mango. Dec 1985. Philippines: Tuguegarao, Cagayan.
- 2082 [IMI 300150] MC Rombach ← HC Evans (I85-12). *Cofana spectra* [Homoptera: Cicadellidae] on rice. Mar 1985. Indonesia: Kotamobagu, Sulawesi Utara, Celebes.
- 2176 MC Rombach (130586-17). *Nephrotettix virescens* [Homoptera: Cicadellidae] on rice. 13 May 1986. Philippines: nr. Baybay, Leyte.
- 2178 MC Rombach (130586-19). *Nephrotettix virescens* [Homoptera: Cicadellidae] on rice. 13 May 1986. Philippines: nr. Baybay, Leyte.
- 2179 MC Rombach (130586-20). *Recilia dorsalis* [Homoptera: Cicadellidae] on rice. 13 May 1986. Philippines: nr. Baybay, Leyte.

Metarhizium anisopliae (Metschnikoff) Sorokin
 [Sordariomycetes: Hypocreales]
 Clavicipitaceae. Strains included here have not been reconfirmed geonomically to belong to *Metarhizium anisopliae* in the classification of Bischoff et al. (2009).

- 9354 [ERL 1053] M Brownbridge (CA-171) and S Gouli. Isolated from soil sample. 2002. USA: California.
- 9487 [SRCAMB VL-1757] V Likhovidov. [Diptera]. 27 Aug 2005. Ukraine: Autonomous Republic of Crimea. Field Collection Number F-737.
- 9488 [SRCAMB AS-464] V Likhovidov. Isolated from soil sample. 19 May 2004. Ukraine: Askania-Nova Reserve, Kherson Oblast. Field Collection Number F-748.

Metarhizium anisopliae* var. *acridum Driver, Milner & Trueman
 [Sordariomycetes: Hypocreales]
 Clavicipitaceae. Species remaining here need genomic confirmation before reassignment under classification of Bischoff et al. (2009), presumably to *M. acridum*.

- 3606 IMI (I91-609). *Zonocerus variegatus* [Orthoptera: Pyrgomorphidae]. Rec'd 26 Feb 1992. Benin.
- 3614 IMI (I91-671). *Kraussaria angulifera* [Orthoptera: Acrididae: Cyrtacanthacridinae]. Rec'd 26 Feb 1992. Benin.
- 5734 ST Jaronski (SP3). [Orthoptera: Acrididae]. Rec'd 12 Jun 1998. Madagascar.
- 7522 [ARSEF 324] RJ St. Leger. Feb 1979. Australia: Queensland.
- 7970 [CSIRO FI-985] *Austracris guttulosa* [Orthoptera: Acrididae]. 29 Aug 1992. Australia: Rockhampton, Queensland.

8359 [CSIRO FI-0985] DEN Rangel and DW Roberts (F985). *Austracris guttulosa* [Orthoptera: Acrididae]. Rec'd 20 Feb 2007. Australia: Rockhampton, Queensland. **RESTRICTED ACCESS: consult Curator.**

8360 DEN Rangel and DW Roberts. Rec'd 20 Feb 2007. Patented, commercialized strain, Green Guard? biological pesticide. **RESTRICTED ACCESS: consult Curator.**

Metarhizium anisopliae* var. *anisopliae

[Sordariomycetes: Hypocreales]

Clavicipitaceae. Species remaining here need genomic confirmation before reclassification under the classification of Bischoff et al. (2009).

6550 D Chandler (HRI 331.92). Larva, *Eumerus strigatus* [Diptera: Syrphidae]. Rec'd 13 Jul 2000. United Kingdom.

Metarhizium anisopliae* var. *lepidiotae Driver, Milner & Trueman

[Sordariomycetes: Hypocreales]

Clavicipitaceae. Species remaining here need genomic confirmation before reclassification under the emergent classification of Bischoff et al. (2009), presumably to *M. lepidiotae*.

7453 [ARSEF 7488; CSIRO FI-1042] *Dermolepida albohirtum* [Coleoptera: Scarabaeidae]. 5 Mar 1994. Australia: Tully, Queensland.

8732 [CSIRO FI-0147] *Lepidiota consobrina* [Coleoptera: Scarabaeidae]. 29 May 1986. Australia: Mossman, Queensland. CULTURE EX TYPE.

Metarhizium anisopliae* var. *majus (Johnston)

Tulloch

[Sordariomycetes: Hypocreales]

Clavicipitaceae. Species remaining here need genomic confirmation before reclassification, presumably as *M. majus*, under the classification of Bischoff et al. (2009).

297 KJ Marschall. Larva, *Xyloryctes jamaicensis* [Coleoptera: Scarabaeidae]. 22 Nov 1978. Western Samoa: Apia.

298 RS Soper. Larva, *Xyloryctes jamaicensis* [Coleoptera: Scarabaeidae]. Acc'd 22 Feb 1979. Western Samoa: Apia.

1383 Acc'd 26 Jun 1984. Location not specified.

2151 MC Rombach (170386-1). Larva, *Oryctes rhinoceros* [Coleoptera: Scarabaeidae]. 17 Mar 1986. Indonesia: Ciamis, Jawa Barat, Java.

3145 INRA (Ma-51) ← A Gandard. *Oryctes rhinoceros* [Coleoptera: Scarabaeidae]. Jan 1971. France: La Minière.

8736 [CSIRO FI-1000] *Spodoptera* sp. [Lepidoptera: Noctuidae]. 11 May 1993. Malaysia: Cameron Highlands.

Metarhizium anisopliae sensu lato (Metschnikoff)

Sorokin

[Sordariomycetes: Hypocreales]

Clavicipitaceae. These isolates were identified morphologically and have not yet been reidentified under the genomic classification of Bischoff et al. (2009).

- 435 [CSIRO FI53] SJ Gagen (1). *Teleogryllus commodus* [Orthoptera: Gryllidae]. Rec'd 11 Mar 1980. Australia: Warnambool, Victoria.
- 438 [CSIRO FI54] SJ Gagen (4). *Teleogryllus commodus* [Orthoptera: Gryllidae]. Rec'd 11 Mar 1980. Australia.
- 440 SJ Gagen (6). *Teleogryllus commodus* [Orthoptera: Gryllidae]. Rec'd 11 Mar 1980. Australia: Warnambool, Victoria.
- 441 SJ Gagen (7). *Teleogryllus commodus* [Orthoptera: Gryllidae]. Rec'd 11 Mar 1980. Australia: Warnambool, Victoria.
- 442 SJ Gagen (8). *Teleogryllus commodus* [Orthoptera: Gryllidae]. Rec'd 11 Mar 1980. Australia: Hawkesdale, Victoria.
- 445 SJ Gagen (11). *Teleogryllus commodus* [Orthoptera: Gryllidae]. Rec'd 11 Mar 1980. Australia: Carapook, Victoria.
- 456 [QEC 411.0] RS Soper. *Nilaparvata lugens* [Homoptera: Delphacidae]. 5 May 1980. Philippines: IRRI, Los Baños, Manila.
- 457 [QEC 412.0] RS Soper. *Nilaparvata lugens* [Homoptera: Delphacidae]. 5 May 1980. Philippines: IRRI, Los Baños, Manila.
- 485 [QEC 413.0] RS Soper (NT-21). *Nilaparvata lugens* [Homoptera: Delphacidae]. 5 May 1980. Philippines: IRRI, Los Baños, Manila.
- 486 [QEC 414.0] RS Soper (NT-25). *Nilaparvata lugens* [Homoptera: Delphacidae]. 5 May 1980. Philippines: IRRI, Los Baños, Manila.
- 487 [QEC 415.0] RS Soper (NT-20). *Nilaparvata lugens* [Homoptera: Delphacidae]. 5 May 1980. Philippines: IRRI, Los Baños, Manila.
- 488 [QEC 416.0] RS Soper (NT-24). *Nilaparvata lugens* [Homoptera: Delphacidae]. 5 May 1980. Philippines: IRRI, Los Baños, Manila.
- 489 [QEC 417.0] RS Soper (NT-22). *Nilaparvata lugens* [Homoptera: Delphacidae]. 5 May 1980. Philippines: IRRI, Los Baños, Manila.
- 543 DW Roberts (81280). *Recilia dorsalis* [Homoptera: Cicadellidae]. 12 Aug 1980. Philippines: greenhouse, IRRI, Los Baños, Manila.
- 549 [QEC 418.0] DW Roberts. Metabiol. Nov 1980. Brazil.
- 550 [QEC 419.0] DW Roberts. Metabiol. Nov 1980. Brazil.
- 551 [QEC 420.0] DW Roberts. Metabiol. Nov 1980. Brazil.
- 589 [QEC 432.0] JM Lenné (P1). Soil. Rec'd 13 Apr 1981. Colombia: Popayán, Cauca.
- 725 [CNPAF 82-1-6-02; CP 8] RA Daoust. *Chalcodermus aeneus* [Coleoptera: Curculionidae]. 6 Jan 1982. Brazil: CNPAF, Goiânia, Goiás.
- 728 [CNPAF 82-2-3-02; CP 22] RA Daoust. [Orthoptera]. 3 Feb 1982. Brazil: CNPAF, Goiânia, Goiás.
- 729 [CNPAF 82-2-15-02; CP 24] RA Daoust. *Deois flavopicta* [Homoptera: Cercopidae]. Feb 1982. Brazil: CNPAF, Goiânia, Goiás.
- 759 [CNPAF 82-4-1-01; CP 37] RA Daoust. *Deois flavopicta* [Homoptera: Cercopidae]. 1 Apr 1982. Brazil: CNPAF, Goiânia, Goiás.
- 760 [CNPAF 82-2-15-03; CP 31] RA Daoust. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. Feb 1982. Brazil: CNPAF, Goiânia, Goiás.
- 782 [CNPAF 82-5-4-01; CP 52] RA Daoust ← SM dos Santos. *Deois flavopicta* [Homoptera: Cercopidae]. 4 May 1982. Brazil: CNPAF, Goiânia, Goiás.
- 794 GA Kuter (300). Leaf litter under sugar maple. 1975. USA: Abraham's Woods, University of Wisconsin Arboretum, Green County, Wisconsin.
- 808 [CNPAF 82-7-23-01; CP 62] RA Daoust ← SM dos Santos. *Coleomegilla maculata* [Coleoptera: Coccinellidae]. 23 Jul 1982. Brazil: CNPAF, Goiânia, Goiás.
- 818 GG Soares (19). 6th instar larva, *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. 5 Mar 1982. France: Plougastel-Daoulas, Finistere.
- 844 DW Roberts ← B Schaeffer (Ma16). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.
- 845 DW Roberts ← B Schaeffer (Ma13). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.
- 846 DW Roberts ← B Schaeffer (Ma18). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.
- 847 DW Roberts ← B Schaeffer (Ma1). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.
- 848 DW Roberts ← B Schaeffer (Ma17). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.
- 849 DW Roberts ← B Schaeffer (Ma8). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.
- 850 DW Roberts ← B Schaeffer (Ma15). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.
- 851 DW Roberts ← B Schaeffer (Ma10). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.
- 852 DW Roberts ← B Schaeffer (Ma6). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.

- 853 DW Roberts ← B Schaeffenberg (Ma11). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.
- 854 DW Roberts ← B Schaeffenberg (Ma14). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.
- 855 DW Roberts ← B Schaeffenberg (Ma5). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.
- 856 DW Roberts ← B Schaeffenberg (Ma12). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.
- 857 DW Roberts ← B Schaeffenberg (Ma9). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.
- 858 DW Roberts ← B Schaeffenberg (Ma19). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.
- 859 DW Roberts ← B Schaeffenberg (Ma4). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.
- 860 DW Roberts ← B Schaeffenberg (Ma7). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.
- 861 DW Roberts ← B Schaeffenberg (Ma20). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.
- 862 DW Roberts ← B Schaeffenberg (Ma2). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.
- 863 DW Roberts ← B Schaeffenberg (Ma3). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.
- 864 DW Roberts (Ma Teetor S2 SS#19) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Rec'd May 1983. Laboratory manipulation.
- 865 DW Roberts (Ma Teetor S2 SS#20) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Rec'd May 1983. Laboratory manipulation.
- 866 DW Roberts (Ma Teetor S2 SS#22) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Rec'd May 1983. Laboratory manipulation.
- 867 DW Roberts (Ma Teetor S2 SS#18) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Rec'd May 1983. Laboratory manipulation.
- 868 DW Roberts (Ma Teetor S2 SS#16) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Rec'd May 1983. Laboratory manipulation.
- 869 DW Roberts (Ma Teetor S2 SS#17) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Rec'd May 1983. Laboratory manipulation.
- 870 DW Roberts (Ma Teetor S2 SS#15) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Rec'd May 1983. Laboratory manipulation.
- 871 DW Roberts (Ma Teetor S2 SS#21) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Rec'd May 1983. Laboratory manipulation.
- 872 [ARSEF 888 (deaccessioned); QEC 408.0] DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Acc'd 7 Jun 1983. Laboratory manipulation.
- 873 DW Roberts (Ma Teetor S2 SS#4) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Acc'd 7 Jun 1983. Laboratory manipulation.
- 874 DW Roberts (Ma Teetor S2 SS#2) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Acc'd 7 Jun 1983. Laboratory manipulation.
- 875 DW Roberts (Ma Teetor S2 SS#1) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Acc'd 7 Jun 1983. Laboratory manipulation.
- 889 DW Roberts (Ma Teetor S2 SS#9) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Acc'd Jun 1983. Laboratory manipulation.
- 890 DW Roberts (Ma Teetor S2 SS#8) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Acc'd Jun 1983. Laboratory manipulation.
- 891 DW Roberts (Ma Teetor S2 SS#7) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Acc'd Jun 1983. Laboratory manipulation.
- 892 DW Roberts (Ma Teetor S2 SS#6) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Acc'd Jun 1983. Laboratory manipulation.
- 893 DW Roberts (Ma Teetor S2 SS#3) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Acc'd Jun 1983. Laboratory manipulation.
- 894 DW Roberts (Ma Teetor S2 SS#14) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Acc'd Jun 1983. Laboratory manipulation.
- 895 DW Roberts (Ma Teetor S2 SS#13) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Acc'd Jun 1983. Laboratory manipulation.

- 896 DW Roberts (Ma Teetor S2 SS#12) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Acc'd Jun 1983. Laboratory manipulation.
- 897 DW Roberts (Ma Teetor S2 SS#11) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Acc'd Jun 1983. Laboratory manipulation.
- 898 DW Roberts (Ma Teetor S2 SS#10) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Acc'd Jun 1983. Laboratory manipulation.
- 901 DW Roberts (VSS#6). Single spore isolation. Acc'd 24 Jun 1983. Laboratory manipulation.
- 902 DW Roberts (VSS#5). Single spore isolation. Acc'd 24 Jun 1983. Laboratory manipulation.
- 903 DW Roberts (VSS#4). Single spore isolation. Acc'd 24 Jun 1983. Laboratory manipulation.
- 904 DW Roberts (VSS#3). Single spore isolation. Acc'd 24 Jun 1983. Laboratory manipulation.
- 905 DW Roberts (VSS#2). Single spore isolation. Acc'd 24 Jun 1983. Laboratory manipulation.
- 906 DW Roberts (VSS#1). Single spore isolation. Acc'd 24 Jun 1983. Laboratory manipulation.
- 907 [QEC 421.0] K Al-Aidroos (DIII 3B Bes 48 (recombinant)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 25 Jun 1983. Laboratory manipulation.
- 908 K Al-Aidroos (S7N5 (mutant)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 8 Jul 1983. Laboratory manipulation.
- 909 [QEC 408.1] K Al-Aidroos (5.173 (EMS mutant)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 8 Jul 1983. Laboratory manipulation.
- 910 [QEC 423.0] K Al-Aidroos (D95A Bes 140 (recombinant)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 8 Jul 1983. Laboratory manipulation.
- 911 [QEC 424.0] K Al-Aidroos (19-1a5 (EMS mutant)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 8 Jul 1983. Laboratory manipulation.
- 912 [QEC 425.0] K Al-Aidroos (D198A) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 22 Jul 1983. Laboratory manipulation.
- 913 [QEC 426.0] K Al-Aidroos (D95A (diploid, recombinant)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 22 Jul 1983. Laboratory manipulation.
- 921 [QEC 422.1] K Al-Aidroos (42.2a9 (EMS mutant)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 22 Jul 1983. Laboratory manipulation.
- 922 K Al-Aidroos (5.281 (mutant)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 22 Jul 1983. Laboratory manipulation.
- 925 [ATCC 60335; EPABA E-9(ESMC); QEC 409.0] DW Roberts ← J Ventura. *Deois flavopicta* [Homoptera: Cercopidae]. 22 Aug 1978. Brazil: Espírito Santo.
- 929 [CNPAF 82-12-15-01; CP 67] RA Daoust ← SM dos Santos. Larva, *Chalcodermus aeneus* [Coleoptera: Curculionidae]. Dec 1982. Brazil: CNPAF, Goiânia, Goiás.
- 932 [CNPAF 82-12-20-02; CP 70] RA Daoust. [Coleoptera: Bruchidae]. 20 Dec 1982. Brazil: CNPAF, Goiânia, Goiás.
- 939 [CNPAF 83-3-3-03; CP 78] RA Daoust ← SM dos Santos. [Coleoptera: Carabidae]. 3 Mar 1983. Brazil: CNPAF, Goiânia, Goiás.
- 954 [CNPAF 83-03-16L; CP 99] RA Daoust and BP Magalhães. [Coleoptera: Bruchidae]. 16 Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 955 [CNPAF 83-4-27; CP 100] RA Daoust ← SM dos Santos. *Deois flavopicta* [Homoptera: Cercopidae]. 27 Apr 1983. Brazil: CNPAF, Goiânia, Goiás.
- 960 K Al-Aidroos (DIII 3B (mutant)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 26 Aug 1983. Laboratory manipulation.
- 965 K Al-Aidroos (5.378 (EMS mutant)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 17 Oct 1983. Laboratory manipulation.
- 966 K Al-Aidroos (19.1 (EMS mutant)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 17 Oct 1983. Laboratory manipulation.
- 967 K Al-Aidroos (5.287 (EMS mutant)) ← DW Roberts (Ma Teetor S-SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 17 Oct 1983. Laboratory manipulation.
- 968 K Al-Aidroos (DIII 3A (mutant)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 17 Oct 1983. Laboratory manipulation.
- 1022 K Al-Aidroos (5.304 (EMS mutant of 5A)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 12 Dec 1983. Laboratory manipulation.
- 1023 K Al-Aidroos (JX1.23C (mutant)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 12 Dec 1983. Laboratory manipulation.

- 1024 K Al-Aidroos (JX1.23A (mutant)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 12 Dec 1983. Laboratory manipulation.
- 1025 K Al-Aidroos (42.2 (EMS mutant of 5.42)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 12 Dec 1983. Laboratory manipulation.
- 1055 [CNPS 19] F Moscardi. *Nezara viridula* [Hemiptera: Pentatomidae]. 1983. Brazil: Londrina, Paraná.
- 1056 [CNPS 25] F Moscardi. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 1983. Brazil: Londrina, Paraná.
- 1059 [CNPS 39C] F Moscardi. Larva, *Chlosyne lacinia saundersii* [Lepidoptera: Nymphalidae]. 1983. Brazil: Londrina, Paraná.
- 1083 K Al-Aidroos (5A.11 (EMS mutant of 5A)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 16 Feb 1984. Laboratory manipulation.
- 1084 K Al-Aidroos (5A.7 (EMS mutant of 5A)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 16 Feb 1984. Laboratory manipulation.
- 1085 K Al-Aidroos (5A.1 (EMS mutant of 5A)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 16 Feb 1984. Laboratory manipulation.
- 1086 K Al-Aidroos (5A.10 (EMS mutant of 5A)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 16 Feb 1984. Laboratory manipulation.
- 1087 K Al-Aidroos (5A (UV irradiated mutant of 5)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 16 Feb 1984. Laboratory manipulation.
- 1088 K Al-Aidroos (5A.12 (EMS mutant of 5A)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 16 Feb 1984. Laboratory manipulation.
- 1089 K Al-Aidroos (JXIV.245 (mutant)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 16 Feb 1984. Laboratory manipulation.
- 1090 K Al-Aidroos (KIIVA (mutant)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 16 Feb 1984. Laboratory manipulation.
- 1091 K Al-Aidroos (JIIXIV (mutant)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 16 Feb 1984. Laboratory manipulation.
- 1094 DW Roberts ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). [Lepidoptera]. Acc'd 16 Feb 1984. Laboratory manipulation.
- 1097 K Al-Aidroos (JIVD (mutant)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 16 Feb 1984. Laboratory manipulation.
- 1280 DW Roberts (single spore isolate #1) or (MaT3JB-C). *Popillia japonica* [Coleoptera: Scarabaeidae]. 1978. USA: Clinton Corners, New York.
- 1281 DW Roberts. Chemical mutant of Roberts # F84 ← ARSEF 23. Acc'd 3 May 1984. Laboratory manipulation.
- 1282 K El-kadi (CEPLAC-ICI). [Homoptera: Cercopidae]. Acc'd 3 May 1984. Brazil: Bahia.
- 1284 [QEC 434.0] DW Roberts (BPH-12). Biotype 3, *Nilaparvata lugens* [Homoptera: Delphacidae]. Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.
- 1285 [QEC 435.0] DW Roberts (BPH-13). Biotype 3, *Nilaparvata lugens* [Homoptera: Delphacidae]. Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.
- 1286 [QEC 436.0] DW Roberts (BPH-4). Biotype 3, *Nilaparvata lugens* [Homoptera: Delphacidae]. Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.
- 1290 [QEC 437.0] DW Roberts (BPH-11). Biotype 3, *Nilaparvata lugens* [Homoptera: Delphacidae]. Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.
- 1299 [ARSEF 1045; EPABA A-24] DW Roberts ← E Matta. [Homoptera: Cercopidae]. Aug 1978. Brazil: Bahia.
- 1300 [QEC 438.0] DW Roberts (VIII). *Nilaparvata lugens* [Homoptera: Delphacidae]. Sep 1983. Philippines: Plant Physiology Plot, IRRI, Los Baños, Manila.
- 1304 [QEC 439.0] DW Roberts (D). *Nilaparvata lugens* [Homoptera: Delphacidae]. Sep 1983. Philippines: Sipit Area, IRRI, Los Baños, Manila.
- 1373 S Keller (44). Acc'd 21 Jun 1984. Switzerland.
- 1374 S Keller (45). Acc'd 21 Jun 1984. Switzerland.
- 1375 S Keller (46). Acc'd 21 Jun 1984. Switzerland.
- 1376 S Keller (47). Acc'd 21 Jun 1984. Switzerland.
- 1377 [ARSEF ?396] S Keller (48). *Agriotes sputator* [Coleoptera: Elateridae]. 4 May 1977. Switzerland.
- 1378 Acc'd 26 Jun 1984. Location not specified.
- 1379 [EPABA A-12] DW Roberts ← E Matta. [Homoptera: Cercopidae]. 22 Aug 1978. Brazil: Bahia.
- 1380 Acc'd 26 Jun 1984. Location not specified.
- 1382 [EPABA A-10] DW Roberts ← E Matta. [Homoptera: Cercopidae]. 22 Aug 1978. Brazil: Bahia.
- 1386 Acc'd 5 Jul 1984. Location not specified.
- 1387 Acc'd 5 Jul 1984. Location not specified.
- 1388 Acc'd 5 Jul 1984. Location not specified.
- 1432 MC Rombach (B). *Scotinophara coarctata* [Hemiptera: Pentatomidae]. 14 Apr 1984. Philippines: Maasin, Palawan.

- 1449 [CNPAF 84-1-26; CP 123] BP Magalhães. *Deois incompleta* [Homoptera: Cercopidae]. 26 Jan 1984. Brazil: Altamira, Pará.
- 1490 [INRA Ma-127] GG Soares ← P Ferron ← DW Roberts. Acc'd 21 Aug 1984. Location not specified.
- 1548 MC Rombach (Ma Pal.I). Adult, *Scotinophara coarctata* [Hemiptera: Pentatomidae] on rice. May 1984. Philippines: nr. PNAC Station, Arbor Lan, Palawan.
- 1726 DW Roberts (291013) and MC Rombach. *Nilaparvata lugens* [Homoptera: Delphacidae]. 29 Oct 1984. India: greenhouse, Paddy Breeding Station, Tamil Nadu Ag. Univ., Coimbatore, Tamil Nadu.
- 1727 DW Roberts (291015) and MC Rombach. *Nilaparvata lugens* [Homoptera: Delphacidae]. 29 Oct 1984. India: greenhouse, Paddy Breeding Station, Tamil Nadu Ag. Univ., Coimbatore, Tamil Nadu.
- 1728 DW Roberts (291001) and MC Rombach. *Nilaparvata lugens* [Homoptera: Delphacidae]. 29 Oct 1984. India: greenhouse, Tamil Nadu Ag. Univ., Coimbatore, Tamil Nadu.
- 1744 DW Roberts (291014) and MC Rombach. *Nilaparvata lugens* [Homoptera: Delphacidae]. 29 Oct 1984. India: greenhouse, Paddy Breeding Station, Tamil Nadu Ag. Univ., Coimbatore, Tamil Nadu.
- 1745 DW Roberts (291016) and MC Rombach. *Nilaparvata lugens* [Homoptera: Delphacidae]. 29 Oct 1984. India: greenhouse, Paddy Breeding Station, Tamil Nadu Ag. Univ., Coimbatore, Tamil Nadu.
- 1823 DW Roberts (29103b) and MC Rombach. *Nilaparvata lugens* [Homoptera: Delphacidae]. 29 Oct 1984. India: greenhouse, Tamil Nadu Ag. Univ., Coimbatore, Tamil Nadu.
- 1882 [CP 171] DW Roberts ← C Czepak. *Tibraca limbaticollis* [Hemiptera: Pentatomidae]. 3 Jan 1985. Brazil: CNPAF, Goiânia, Goiás.
- 1883 [CP 172] DW Roberts ← JFS Martins. *Tibraca limbaticollis* [Hemiptera: Pentatomidae]. 11 Jan 1985. Brazil: CNPAF, Goiânia, Goiás.
- 1885 [CP 174] DW Roberts ← SM dos Santos. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. 23 Apr 1985. Brazil: CNPAF, Goiânia, Goiás.
- 1890 DW Roberts ← RA Daoust (ZcG3). [Homoptera: Cercopidae]. Jan 1980. Brazil: Pará.
- 1891 DW Roberts ← MA Naves (460(88)). [Homoptera: Cercopidae]. Jan 1980. Brazil: Pará.
- 1892 DW Roberts ← RA Daoust (Eq-ESMC-CsI). *Deois flavopicta* [Homoptera: Cercopidae] isolate (Daoust # E-9) passed through *Culex quinquefasciatus* [Diptera: Culicidae]. Acc'd 6 Jun 1985. Laboratory manipulation.
- 1895 DW Roberts ← RA Daoust (ZcG1). [Homoptera: Cercopidae]. Jan 1980. Brazil: Pará.
- 1896 [EPABA A-8(BAMC)] DW Roberts ← E Matta. *Mahanarva posticata* [Homoptera: Cercopidae]. Rec'd Aug 1978. Brazil: Salvador, Bahia.
- 1898 [EPABA A-18 (BAMC)] DW Roberts ← E Matta. *Mahanarva posticata* [Homoptera: Cercopidae]. Rec'd Aug 1978. Brazil: Salvador, Bahia.
- 1899 [EPABA A-23] DW Roberts ← E Matta. [Homoptera: Cercopidae]. Rec'd Aug 1978. Brazil.
- 1901 DW Roberts ← MA Naves (CG-6). [Coleoptera: Carabidae]. Jan 1980. Brazil: Pará.
- 1902 DW Roberts ← RA Daoust (ZcG4). [Homoptera: Cercopidae]. Jan 1980. Brazil.
- 1903 DW Roberts (103a). *Conoderus* sp. [Coleoptera: Elateridae]. Acc'd 11 Jun 1985. USA.
- 1911 [EPABA A-2] DW Roberts ← E Matta. [Homoptera: Cercopidae]. Rec'd Aug 1978. Brazil.
- 1958 [CNPAF 85-7-24-1; CP 184] JC Lord and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 24 Jul 1985. Brazil: Ribeira do Pombal, Bahia.
- 1970 [CNPAF 82-12-01; CP 170] C Czepak. *Deois flavopicta* [Homoptera: Cercopidae]. 1 Dec 1984. Brazil: CNPAF, Goiânia, Goiás.
- 1989 [ARSEF 1452 (deaccessioned); CNPAF 53; CP 126] F Moscardi. *Sternechus subsignatus* [Coleoptera: Curculionidae]. 27 Mar 1984. Brazil: Soybean Center, Londrina, Paraná.
- 2038 MC Rombach (161085-35) ← SB Ahn (D2-4). *Nilaparvata lugens* [Homoptera: Delphacidae] on rice. 16 Oct 1985. Republic of Korea.
- 2039 MC Rombach (161085-36) ← SB Ahn (E2-13). *Nilaparvata lugens* [Homoptera: Delphacidae] on rice. 16 Oct 1985. Republic of Korea.
- 2076 [CP 194] JC Lord and BP Magalhães. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. 1985. Brazil: CNPAF, Goiânia, Goiás.
- 2077 [CP 195] JC Lord and BP Magalhães. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. 1985. Brazil: CNPAF, Goiânia, Goiás.
- 2105 DG Holdom (130286-3). ?*Hydrellia* sp. [Diptera: Ephydriidae]. 13 Feb 1986. Indonesia: CIBA-GEIGY R & D Station, Cikampek, Jawa Barat, Java.
- 2135 T Searle (F). *Phyllophaga ?anxia* [Coleoptera: Scarabaeidae]. Jul 1985. Canada: Southern Québec.
- 2136 T Searle (K). *Phyllophaga ?anxia* [Coleoptera: Scarabaeidae]. Jul 1985. Canada.
- 2137 T Searle (Q). *Phyllophaga ?anxia* [Coleoptera: Scarabaeidae]. Jul 1985. Canada: Southern Québec.
- 2138 T Searle (W). *Phyllophaga ?anxia* [Coleoptera: Scarabaeidae]. Jul 1985. Canada: Southern Québec.
- 2139 T Searle (Z). *Phyllophaga ?anxia* [Coleoptera: Scarabaeidae]. Aug 1985. Canada: Southern Québec.
- 2156 BN Muthappa (PNG 12711). Adult, *Oryctes* sp. [Coleoptera: Scarabaeidae]. Rec'd 12 May 1986. Papua New Guinea.
- 2163 BN Muthappa (PNG 12722). Larva, [Coleoptera: Scarabaeidae]. Rec'd 12 May 1986. Papua New Guinea.

- 2165 BN Muthappa (PNG 12724). Larva, *Oryctes* sp. [Coleoptera: Scarabaeidae]. Rec'd 12 May 1986. Papua New Guinea.
- 2166 BN Muthappa (PNG 12726). Larva, *Oryctes* sp. [Coleoptera: Scarabaeidae]. Rec'd 12 May 1986. Papua New Guinea.
- 2167 BN Muthappa (PNG 12727). Larva, *Oryctes* sp. [Coleoptera: Scarabaeidae]. Rec'd 12 May 1986. Papua New Guinea.
- 2211 [CNPAF 86-06-02-3; CP 207] DW Roberts ← JFS Martins. Soil. 2 Jun 1986. Brazil: Campinas, São Paulo.
- 2212 [CNPAF 86-06-05-9; CP 208] DW Roberts ← PMOJ Neves. *Tibraca limbativentris* [Hemiptera: Pentatomidae]. 5 Jun 1986. Brazil: CNPAF, Goiânia, Goiás.
- 2213 [CNPAF 86-06-05-8; CP 209] DW Roberts ← O Sales. *Tibraca limbativentris* [Hemiptera: Pentatomidae]. 5 Jun 1986. Brazil: CNPAF, Goiânia, Goiás.
- 2214 [CNPAF 86-06-05-7; CP 210] DW Roberts ← JFS Martins. *Tibraca limbativentris* [Hemiptera: Pentatomidae]. 5 Jun 1986. Brazil: CNPAF, Goiânia, Goiás.
- 2230 MC Rombach (220786-1). 22 Jul 1986. Location not specified.
- 2341 [ARSEF 2381 (never frozen), 2383 (never frozen)] MC Rombach (120286-2). *Scotinophara coarctata* [Hemiptera: Pentatomidae] on rice. 12 Feb 1986. Philippines: Palawan.
- 2342 [ARSEF 2384 (never frozen)] MC Rombach (120286-3). *Scotinophara coarctata* [Hemiptera: Pentatomidae] on rice. 12 Feb 1986. Philippines: Palawan.
- 2343 [ARSEF 2385 (never frozen)] MC Rombach (120286-4). *Scotinophara coarctata* [Hemiptera: Pentatomidae] on rice. 12 Feb 1986. Philippines: Palawan.
- 2424 DG Holdom (080287-1). Larva, [Lepidoptera]. 8 Feb 1987. Indonesia: CIBA-GEIGY R & D Station, Cikampek, Jawa Barat, Java.
- 2510 [CP 218] SM dos Santos. *Atta* sp. [Hymenoptera: Formicidae]. 29 Apr 1987. Brazil: CNPAF, Goiânia, Goiás.
- 2513 [CP 236A] SM dos Santos. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. Oct 1986. Brazil: CNPAF, Goiânia, Goiás.
- 2521 [CP 225] F Moscardi. *Deois* sp. [Homoptera: Cercopidae]. 1983. Brazil: CNPS, Londrina, Paraná.
- 2548 SV Krueger ← FL Consolie and MG Villani. *Popillia japonica* [Coleoptera: Scarabaeidae]. Oct 1987. USA: Sleepy Hollow, New York.
- 2574 Acc'd 11 Jul 1988. Location not specified.
- 2628 [CNPAF Pl-88; CP 243] DW Roberts ← Planalsucar. 23 May 1988. Brazil: Carpinha, Pernambuco.
- 2634 [CNPAF D4; CP 251] DW Roberts ← Dep. Genetica da ISALQ. Mutant of E9 ESMC parent. Rec'd 23 Nov 1988. Brazil: Piracicaba, São Paulo.
- 2635 [CNPAF 88-5-6B; CP 253] DW Roberts ← E Dias Quintela. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. 6 May 1988. Brazil: CNPAF, Goiânia, Goiás.
- 2805 GW Riethmacher (B13m). Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap. 11 Apr 1989. Philippines: Atok, Benguet.
- 2806 GW Riethmacher (B14m). Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap. 4 May 1989. Philippines: Atok, Benguet.
- 2941 [CP 272] SP Wraight ← DR Sosa-Gómez. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. 8 Nov 1988. Brazil: CNPAF, Goiânia, Goiás.
- 2949 [CP 277] SP Wraight ← CA da Silva, EC de Moura, GS de Sá and SM dos Santos. [Isoptera]. 19 Jan 1989. Brazil: CNPAF, Goiânia, Goiás.
- 2951 [CP 285] SP Wraight ← C Czepak. [Isoptera]. 9 Nov 1989. Brazil: CNPAF, Goiânia, Goiás.
- 3056 [MAF F11] T Glare. *Costelytra zealandica* [Coleoptera: Scarabaeidae]. Rec'd Oct 1990. New Zealand: Canterbury Plains, South Island.
- 3057 [MAF F12] T Glare. *Costelytra zealandica* [Coleoptera: Scarabaeidae]. Rec'd Oct 1990. New Zealand: South Island.
- 3064 [MAF F25] T Glare. Larva, [Lepidoptera: Crambidae]. Rec'd Oct 1990. New Zealand: Christchurch, South Island.
- 3127 [IMI 168777ii] C Prior ← M Tulloch. *Schistocerca gregaria* [Orthoptera: Acrididae]. 1974. Laboratory manipulation.
- 3146 INRA (Ma-70). *Anagyrus* sp. [Hymenoptera: Encyrtidae]. Aug 1972. Mexico.
- 3147 INRA (Ma-152) ← G Riba. [Homoptera: Cercopidae]. Dec 1981. Brazil.
- 3148 INRA (Ma-181) ← A Caudal. *Haphochelus marginalis* [Coleoptera]. May 1983. France: Réunion.
- 3190 GW Riethmacher (B44a). Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap. 17 May 1990. Philippines: La Trinidad, Benguet.
- 3194 GW Riethmacher (B47a). Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap. 6 Jun 1990. Philippines: Villasis, Pangasinan.
- 3196 GW Riethmacher (B48). Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap. 13 Jun 1990. Philippines: Baguio City, Benguet.
- 3290 J Gutierrez Samperio (6) ← ERD Reyes. *Diatraea saccharalis* [Lepidoptera: Pyralidae] on sugar cane. 1988. Mexico: Colima.
- 3291 J Gutierrez Samperio (7) ← ERD Reyes. *Diatraea saccharalis* [Lepidoptera: Pyralidae] on sugar cane. 1987. Mexico: Colima.
- 3292 J Gutierrez Samperio (8) ← ERD Reyes. *Diatraea saccharalis* [Lepidoptera: Pyralidae] on sugar cane. 1987. Mexico: Colima.

- 3293 J Gutierrez Samperio (9) ← ERD Reyes. *Spodoptera frugiperda* [Lepidoptera: Noctuidae] on corn. 1988. Mexico: Colima.
- 3305 J Gutierrez Samperio (21) ← ERD Reyes. *Geraeus senilis* [Coleoptera: Curculionidae] on corn. 1990. Mexico: Colima.
- 3306 J Gutierrez Samperio (22) ← ERD Reyes. *Geraeus senilis* [Coleoptera: Curculionidae] on corn. 1990. Mexico: Colima.
- 3307 J Gutierrez Samperio (23) ← ERD Reyes. [Homoptera: Cercopidae] on sugar cane. 1990. Mexico: Colima.
- 3308 J Gutierrez Samperio (24) ← ERD Reyes. *Geraeus senilis* [Coleoptera: Curculionidae] on corn. 1990. Mexico: Colima.
- 3329 DW Roberts ← AS Martins (A-1). 3rd instar larva, *Popillia japonica* [Coleoptera: Scarabaeidae]. Spring 1988. Portugal: Terceira Island, Azores.
- 3330 SV Krueger (MaJB1). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.
- 3331 SV Krueger (MaJB2). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.
- 3332 SV Krueger (MaJB3). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.
- 3333 SV Krueger (MaJB6). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.
- 3334 SV Krueger (MaJB7). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.
- 3335 SV Krueger (MaJB8). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.
- 3336 SV Krueger (MaJB9). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.
- 3337 SV Krueger (MaJB10). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.
- 3338 SV Krueger (MaJB11). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.
- 3339 SV Krueger (MaJB12). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.
- 3340 SV Krueger (MaJB13). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.
- 3389 I Majchrowicz (T-11-4). *Tribolium castaneum* [Coleoptera: Tenebrionidae] on apple. 16 Jul 1991. USA: Seto Farm, Granger, Washington.
- 3479 CENARGEN (CG 339). [Coleoptera: Scarabaeidae]. 1991. Brazil: Brasília, Distrito Federal.
- 3541 M Brownbridge (B-5). Soil, using *Galleria mellonella* [Lepidoptera: Pyralidae] as a trap. 27 Nov 1991. USA: Motyka's sugar maple stand, Orange County, Vermont.
- 3542 M Brownbridge (B-18). Soil, using *Galleria mellonella* [Lepidoptera: Pyralidae] as a trap. 27 Nov 1991. USA: Ralph's sugar maple stand, Warren, Vermont.
- 3544 M Brownbridge (B-35). Soil, using *Galleria mellonella* [Lepidoptera: Pyralidae] as a trap. 19 Nov 1991. USA: Ralph's sugar maple stand, Warren, Vermont.
- 3565 M Brownbridge (B-36). Rec'd 10 Jan 1992. Location not specified.
- 3605 [CSIRO FI 1039] IMI (I90-574). *Acrotylus* sp. [Orthoptera: Acrididae]. Rec'd 26 Feb 1992. Pakistan.
- 3619 IMI (I91-676). *Oxya multidentata* [Orthoptera: Acrididae]. Rec'd 26 Feb 1992. Pakistan.
- 3713 RA LeBrun ← J Hanula (C-5). Larva, *Popillia japonica* [Coleoptera: Scarabaeidae]. 3 Jun 1991. USA: Clinton, Connecticut.
- 3720 RA LeBrun ← J Hanula. Larva, *Popillia japonica* [Coleoptera: Scarabaeidae]. 20 May 1991. USA: Windsor, Connecticut.
- 3822 [ARSEF 2153] N Underwood (ARSEF2153). *Diuraphis noxia* [Homoptera: Aphididae]. Rec'd 8 Jan 1993. Laboratory manipulation.
- 3827 CF Andrade (IF#1). Larva, *Ochlerotatus triseriatus* [Diptera: Culicidae]. 11 May 1992. USA: Stair Park, Vestal, NY.
- 3918 DR Sosa-Gómez (CNPSo-MA2). Soil. 10 Nov 1989. Brazil: Mauá, Paraná.
- 3919 DR Sosa-Gómez (CNPSo-Ma3). Soil. 10 Nov 1989. Brazil: Mauá, Paraná.
- 3920 DR Sosa-Gómez (CNPSo-Ma4). Soil. 10 Nov 1989. Brazil: Mauá, Paraná.
- 3930 DR Sosa-Gómez (CNPSo-Bb49). Host not specified. Rec'd Jun 1993. Location not specified. Reisolate of either ARSEF 944 or 933: not specified.
- 4095 LA Lacey (94005). [Homoptera: Cicadidae]. Rec'd 28 Mar 1994. Brazil.
- 4125 [DAT 2] AC Rath (Fl24). *Aphodius tasmaniae* [Coleoptera: Scarabaeidae]. 2 May 1986. Australia.
- 4132 [DAT 11] AC Rath (F011). Larva, *Aphodius tasmaniae* [Coleoptera: Scarabaeidae]. 1983. Australia: Eyre Pennisular, South Australia.
- 4133 [DAT 12] AC Rath (F012). Larva, *Aphodius tasmaniae* [Coleoptera: Scarabaeidae]. 1983. Australia: Aldgate, South Australia.
- 4134 [DAT 14] AC Rath (F014). Larva, *Sericethis* sp. [Coleoptera: Scarabaeidae]. 8 May 1986. Australia: Laboratory, Newtown, Tasmania.
- 4137 [DAT 19] AC Rath (F019). Larva, *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. 1986. Australia: Laboratory, Newtown, Tasmania.
- 4138 [DAT 20] AC Rath (F020). Larva, *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. 1 Dec 1986. Australia: NW Coast, Tasmania.
- 4139 [DAT 24] AC Rath (F024). *Aphodius tasmaniae* [Coleoptera: Scarabaeidae]. 1 Dec 1986. Australia: South Australia.

- 4141 [DAT 29] AC Rath (F029). *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. 1987. Australia: Woodbury, Tasmania.
- 4142 [DAT 36] AC Rath (F036). *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. 1987. Laboratory.
- 4151 [DAT 146; H Yip HY215] AC Rath (F146). Soil. 26 Oct 1988. Australia: Mt Morriston, Ross, Tasmania.
- 4155 [DAT 153] AC Rath (F153) ← H Yip (HY208). Soil. 26 Oct 1988. Australia: Westbury, Tasmania.
- 4156 [DAT 156] AC Rath (F156) ← H Yip (HY205). Soil. 26 Oct 1988. Australia: Westbury, Tasmania.
- 4157 [DAT 163] AC Rath (F163) ← H Yip (HY198). Soil. 13 Oct 1988. Australia: Huonville, Tasmania.
- 4159 [DAT 169] AC Rath (F169) ← H Yip (HY192). Soil. 13 Oct 1988. Australia: Melton Mowbray, Tasmania.
- 4160 [DAT 170] AC Rath (F170) ← H Yip (HY191). Soil. 13 Oct 1988. Australia: Colebrook, Tasmania.
- 4161 [DAT 171] AC Rath (F171) ← H Yip (HY190). Soil. 13 Oct 1988. Australia: Conmurra, Tasmania.
- 4162 [DAT 188] AC Rath (F188) ← H Yip (HY173). Soil. 26 Sep 1988. Australia: Bridport, Tasmania.
- 4163 [DAT 190] AC Rath (F190) ← H Yip (HY171). Soil. 26 Sep 1988. Australia: Springmere, Beaconsfield, Tasmania.
- 4166 [DAT 194] AC Rath (F194) ← H Yip (HY167). Soil. 26 Sep 1988. Australia: Springmere, Beaconsfield, Tasmania.
- 4167 [DAT 195] AC Rath (F195) ← H Yip (HY166). Soil. 20 Sep 1988. Australia: Exeter, Tasmania.
- 4168 [DAT 196] AC Rath (F196) ← H Yip (HY165). Soil. 20 Sep 1994. Australia: Frankford, Tasmania.
- 4169 [DAT 197] AC Rath (F197) ← H Yip (HY164). Soil. 20 Sep 1994. Australia: Frankford, Tasmania.
- 4170 [DAT 198] AC Rath (F198) ← H Yip (HY163). Soil. 20 Sep 1994. Australia: Exeter, Tasmania.
- 4171 [DAT 200] AC Rath (F200) ← H Yip (HY161). Soil. 9 Sep 1988. Australia: Exeter, Tasmania.
- 4172 [DAT 201] AC Rath (F201) ← H Yip (HY160). Soil. 9 Sep 1988. Australia: Beaconsfield, Tasmania.
- 4173 [DAT 202] AC Rath (F202) ← H Yip (HY159). Soil. 9 Sep 1988. Australia: Exeter, Tasmania.
- 4174 [DAT 203] AC Rath (F203) ← H Yip (HY158). Soil. 9 Sep 1988. Australia: Exeter, Tasmania.
- 4175 [DAT 204] AC Rath (F204) ← H Yip (HY156). Soil. 9 Sep 1988. Australia: Bridport, Tasmania.
- 4176 [DAT 205] AC Rath (F205) ← H Yip (HY157). Soil. 9 Sep 1988. Australia: Beechford, Tasmania.
- 4177 [DAT 206] AC Rath (F206) ← H Yip (HY155). Soil. 9 Sep 1988. Australia: Effingham, Beechford, Tasmania.
- 4178 [DAT 207] AC Rath (F207) ← H Yip (HY154). Soil. 9 Sep 1988. Australia: Effingham, Beechford, Tasmania.
- 4180 [DAT 209] AC Rath (F209) ← H Yip (HY152). Soil. 23 Aug 1988. Australia: Montumana, Tasmania.
- 4181 [DAT 215] AC Rath (F215) ← H Yip (HY146). Soil. 23 Aug 1988. Australia: Stanley, Tasmania.
- 4183 [DAT 227] AC Rath (F227) ← H Yip (HY134). Soil. 23 Aug 1988. Australia: Leighlands, Perth, Tasmania.
- 4184 [DAT 228] AC Rath (F228) ← H Yip (HY133). Soil. 23 Aug 1988. Australia: Leighlands, Perth, Tasmania.
- 4185 [DAT 245] AC Rath (F245) ← H Yip (HY116). Soil. 8 Jul 1988. Australia: Ulverstone, Tasmania.
- 4186 [DAT 246] AC Rath (F246) ← H Yip (HY115). Soil. 8 Jul 1988. Australia: Forth, Tasmania.
- 4187 [DAT 248] AC Rath (F248) ← H Yip (HY113). Soil. 8 Jul 1988. Australia: Forcett, Tasmania.
- 4188 [DAT 249] AC Rath (F249) ← H Yip (HY112). Soil. 8 Jul 1988. Australia: Forcett, Tasmania.
- 4189 [DAT 252] AC Rath (F252) ← H Yip (HY108). Soil. Rec'd 9 May 1994. Australia: Forcett, Tasmania.
- 4190 [DAT 253] AC Rath (F253) ← H Yip (HY207). Soil. 8 Jun 1988. Australia: Copping, Tasmania.
- 4191 [DAT 254] AC Rath (F254) ← H Yip (HY106). Soil. 8 Jun 1988. Australia: Copping, Tasmania.
- 4192 [DAT 331] AC Rath (F331) ← H Yip (HY027). Soil. 6 Jan 1988. Australia: Launceston, Tasmania.
- 4220 [DAT 177] AC Rath (F177) ← H Yip (HY184). Soil. 5 Oct 1988. Australia: Snug, Tasmania.
- 4224 [DAT 180] AC Rath (F180) ← H Yip (HY181). Soil. 26 Sep 1988. Australia: Branxholm, Tasmania.
- 4225 [DAT 185] AC Rath (F185) ← H Yip (HY176). Soil. 26 Sep 1988. Australia: Bridport, Tasmania.
- 4226 [DAT 221] AC Rath (F221) ← H Yip (HY140). Soil. 23 Aug 1988. Australia: Burnie, Tasmania.
- 4229 [DAT 179] AC Rath (F179) ← H Yip (HY182). Soil. 26 Sep 1988. Australia: Bridport, Tasmania.
- 4230 [DAT 212] AC Rath (F212) ← H Yip (HY149). Soil. 23 Aug 1988. Australia: Smithton, Tasmania.
- 4232 [DAT 106] AC Rath (F106). Soil. 14 Jan 1988. Australia: Lockfaine, Benham Estate, Avoca, Tasmania.
- 4234 [DAT 119] AC Rath (F119). Larva, *Oncopera intricata* [Lepidoptera: Hepialidae]. 2 Jan 1988. Australia: Richmond, Tasmania.
- 4235 [DAT 214] AC Rath (F214) ← H Yip (HY147). Soil. 23 Aug 1988. Australia: Edith Creek, Tasmania.
- 4236 [DAT 13] AC Rath (F013). Larva, *Sericethis* sp. [Coleoptera: Scarabaeidae]. 5 Aug 1986. Australia: Laboratory, Newtown, Tasmania.
- 4239 [DAT 34] AC Rath (F034). *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. 1987. Laboratory.
- 4242 [DAT 45] AC Rath (F045) ← RJ Milner (Fl121). Host not specified. 20 Oct 1987. Australia: New South Wales.
- 4244 [DAT 187] AC Rath (F187) ← H Yip (HY174). Soil. 26 Sep 1988. Australia: Branxholm, Tasmania.

- 4246 [DAT 114] AC Rath (F114). Soil. 14 Jan 1988. Australia: Avoca, Tasmania.
- 4247 [DAT 182] AC Rath (F182) ← H Yip (HY179). Soil. 26 Sep 1988. Australia: St Mary's, Tasmania.
- 4248 [DAT 183] AC Rath (F183) ← H Yip (HY178). Soil. 26 Sep 1988. Australia: St Helens, Tasmania.
- 4249 [DAT 77] AC Rath (F077) ← H Yip. Soil. 1 Dec 1987. Australia: Lavender Rarm Rd., Bridport, Tasmania.
- 4250 [DAT 217] AC Rath (F217) ← H Yip (HY144). Soil. 23 Aug 1988. Australia: Smithton, Tasmania.
- 4252 [DAT 111] AC Rath (F111). Soil. 13 Feb 1988. Australia: Lockfaine, Benham Estate, Avoca, Tasmania.
- 4253 [DAT 73] AC Rath (F073). Soil. 4 Jan 1988. Australia: Fairfield, Epping Forest, Tasmania.
- 4255 [DAT 107] AC Rath (F107) ← Pearn. Soil. 14 Jan 1988. Australia: Benham Estate, Avoca, Tasmania.
- 4256 [DAT 103] AC Rath (F103) ← Pearn. Soil. 14 Jan 1988. Australia: Lockfaine, Benham Estate, Avoca, Tasmania.
- 4257 [DAT 113] AC Rath (F113). Soil. 1988. Australia: Benham Estate, Avoca, Tasmania.
- 4259 [DAT 178] AC Rath (F178) ← H Yip (HY183). Soil. 26 Sep 1988. Australia: Welborough, Tasmania.
- 4262 [DAT 236] AC Rath (F236) ← H Yip (HY125). Soil. 8 Jul 1988. Australia: Sprent, Tasmania.
- 4264 [DAT 337] AC Rath (F337) ← H Yip (HY22). Soil. 6 Jan 1988. Australia: The Braes, Woodbury, Tasmania.
- 4265 [DAT 216] AC Rath (F216) ← H Yip (HY145). Soil. 23 Aug 1988. Australia: Irishtown, Tasmania.
- 4266 [DAT 100] AC Rath (F100) ← Pearn. Soil. 13 Jan 1988. Australia: Avoca, Tasmania.
- 4267 [DAT 244] AC Rath (F244) ← H Yip (HY117). Soil. 8 Jul 1988. Australia: Sprent, Tasmania.
- 4268 [DAT 96] AC Rath (F096). Soil. 7 Jan 1988. Australia: Mt. Wellington, Hobart, Tasmania.
- 4269 [DAT 174] AC Rath (F174) ← H Yip (HY187). Soil. 5 Oct 1988. Australia: Snug, Tasmania.
- 4270 [DAT 172] AC Rath (F172) ← H Yip (HY189). Soil. 13 Oct 1988. Australia: Colebrook, Tasmania.
- 4275 [DAT 230] AC Rath (F230) ← H Yip (HY131). Soil. 18 Jul 1988. Australia: Elverton, Blessington, Tasmania.
- 4278 [DAT 94] AC Rath (F094). Soil. 20 Jan 1988. Australia: Fairfield, Epping Forest, Tasmania.
- 4279 [DAT 218] AC Rath (G218) ← H Yip (HY143). Soil. 23 Aug 1988. Australia: Smithton, Tasmania.
- 4280 [DAT 154] AC Rath (F154) ← H Yip (HY207). Soil. 26 Oct 1988. Australia: Tasmania.
- 4281 [DAT 155] AC Rath (F155) ← H Yip (HY206). Soil. 26 Oct 1988. Australia: Cressy, Tasmania.
- 4282 [DAT 229] AC Rath (F229) ← H Yip (HY132). Soil. 18 Jul 1988. Australia: Leighlands, Perth, Tasmania.
- 4283 [DAT 89] AC Rath (F089). Soil. 5 Dec 1987. Australia: Fairfield, Epping Forest, Tasmania.
- 4284 [DAT 306] AC Rath (F306) ← H Yip (HY53). Soil. 19 Feb 1988. Australia: Benham, Avoca, Tasmania.
- 4286 [DAT 167] AC Rath (F167) ← H Yip (HY194). Soil. 13 Oct 1988. Australia: Huonville, Tasmania.
- 4287 [DAT 186] AC Rath (F186) ← H Yip (HY175). Soil. 26 Sep 1988. Australia: St Mary's, Tasmania.
- 4288 [DAT 275] AC Rath (F275) ← H Yip (HY85). Soil. Rec'd 6 Jun 1994. Australia: Connerville, Poatina, Tasmania.
- 4290 [DAT 493] AC Rath (F493) ← W Theunis (SOL IS 17). Adult, [Coleoptera]. Rec'd 6 Jun 1994. Solomon Islands.
- 4291 [DAT 386] AC Rath (F386) ← H Yip (HY246). Soil. Rec'd 6 Jun 1994. Australia: Epping Forest, Tasmania.
- 4292 [DAT 379] AC Rath (F379) ← H Yip (HY239). Soil. Rec'd 6 Jun 1994. Australia: Smithton, Tasmania.
- 4293 [DAT 326] AC Rath (F326) ← H Yip (HY33). Soil. Rec'd 6 Jun 1994. Australia: Epping Forest, Tasmania.
- 4295 [DAT 448] AC Rath (F448) ← H Yip (HY280). Soil. Rec'd 6 Jun 1994. Australia: Bruny Island, Tasmania.
- 4296 [DAT 165] AC Rath (F165) ← H Yip (HY196). Soil. Rec'd 6 Jun 1994. Australia: Dover, Tasmania.
- 4298 [DAT 160] AC Rath (F160) ← H Yip (HY201). Soil. Rec'd 6 Jun 1994. Australia: Bracknell, Tasmania.
- 4299 [DAT 97] AC Rath (F097). Soil. Rec'd 6 Jun 1994. Australia: Benham Estate, Benham, Avoca.
- 4306 [DAT 274] AC Rath (F274) ← H Yip (HY86). Soil. Rec'd 6 Jun 1994. Australia: Connerville, Poatina, Tasmania.
- 4307 [DAT 293] AC Rath (F293) ← H Yip (HY67). Soil. Rec'd 6 Jun 1994. Australia: Tervue, York Plains, Tasmania.
- 4308 [DAT 321] AC Rath (F321) ← H Yip (HY38). Soil. Rec'd 6 Jun 1994. Australia: Benham, Avoca, Tasmania.
- 4309 [DAT 364] AC Rath (F364) ← H Yip (HY217). Soil. Rec'd 6 Jun 1994. Australia: Buckland, Tasmania.
- 4310 [DAT 320] AC Rath (F320) ← H Yip (HY39). Soil. Rec'd 6 Jun 1994. Australia: Benham, Avoca, Tasmania.
- 4311 [DAT 325] AC Rath (F325) ← H Yip (HY34). Soil. Rec'd 6 Jun 1994. Australia: Fairfield, Epping Forest, Tasmania.
- 4312 [DAT 322] AC Rath (F322) ← H Yip (HY37). Soil. Rec'd 6 Jun 1994. Australia: Benham, Avoca, Tasmania.
- 4313 [DAT 315] AC Rath (F315) ← H Yip (HY44). Soil. Rec'd 6 Jun 1994. Australia: Benham, Avoca, Tasmania.

- 4314 [DAT 324] AC Rath (F324) ← H Yip (HY35). Soil. Rec'd 6 Jun 1994. Australia: Benham, Avoca, Tasmania.
- 4315 [DAT 314] AC Rath (F314) ← H Yip (HY45). Soil. Rec'd 6 Jun 1994. Australia: Benham, Avoca, Tasmania.
- 4316 [DAT 319] AC Rath (F319) ← H Yip (HY40). Soil. Rec'd 6 Jun 1994. Australia: Benham, Avoca, Tasmania.
- 4317 [DAT 317] AC Rath (F317) ← H Yip (HY42). Soil. Rec'd 6 Jun 1994. Australia: Benham, Avoca, Tasmania.
- 4318 [DAT 318] AC Rath (F318) ← H Yip (HY41). Soil. Rec'd 6 Jun 1994. Australia: Benham, Avoca, Tasmania.
- 4319 [DAT 316] AC Rath (F316) ← H Yip (HY43). Soil. Rec'd 6 Jun 1994. Australia: Benham, Avoca, Tasmania.
- 4322 [DAT 397] AC Rath (F397) ← H Yip (HY257). Soil. Rec'd 6 Jun 1994. Australia: Colebrook, Tasmania.
- 4323 [DAT 285] AC Rath (F285) ← H Yip (HY75). Soil. Rec'd 6 Jun 1994. Australia: Interlaken, Tasmania.
- 4324 [DAT 282] AC Rath (F282) ← H Yip (HY78). Soil. Rec'd 6 Jun 1994. Australia: View Point, Campbelltown, Tasmania.
- 4325 [DAT 279] AC Rath (F279) ← H Yip (HY81). Soil. Rec'd 6 Jun 1994. Australia: View Point, Campbelltown, Tasmania.
- 4327 [DAT 291] AC Rath (F291) ← H Yip (HY69). Soil. Rec'd 6 Jun 1994. Australia: Tervue, York Plains, Tasmania.
- 4328 [DAT 273] AC Rath (F273) ← H Yip (HY87). Soil. Rec'd 6 Jun 1994. Australia: Connerville, Poatina, Tasmania.
- 4329 [DAT 287] AC Rath (F287) ← H Yip (HY73). Soil. Rec'd 6 Jun 1994. Australia: Tervue, York Plains, Tasmania.
- 4330 [DAT 283] AC Rath (F283) ← H Yip (HY77). Soil. Rec'd 6 Jun 1994. Australia: Fairfield, Epping Forest, Tasmania.
- 4331 [DAT 286] AC Rath (F286) ← H Yip (HY74). Soil. Rec'd 6 Jun 1994. Australia: Interlaken, Interlaken, Tasmania.
- 4332 [DAT 289] AC Rath (F289) ← H Yip (HY71). Soil. Rec'd 6 Jun 1994. Australia: Tervue, York Plains, Tasmania.
- 4333 [DAT 483] AC Rath (F483) ← W Theunis (SOL IS 6). Pupa, [Coleoptera]. Rec'd 6 Jun 1994. Solomon Islands.
- 4334 [DAT 492] AC Rath (F492) ← W Theunis (SOL IS 16). Larva(L3), [Coleoptera]. Rec'd 6 Jun 1994. Solomon Islands.
- 4335 [DAT 484] AC Rath (F484) ← W Theunis (SOL IS 7). Larva(L3), [Coleoptera]. Rec'd 6 Jun 1994. Solomon Islands.
- 4336 [DAT 488] AC Rath (F488) ← W Theunis (SOL IS 12). Adult, [Coleoptera]. Rec'd 6 Jun 1994. Solomon Islands.
- 4337 [DAT 490] AC Rath (F490) ← W Theunis (SOL IS 14). Larva(L3), [Coleoptera]. Rec'd 6 Jun 1994. Solomon Islands.
- 4338 [DAT 486] AC Rath (F486) ← W Theunis (SOL IS 11). Pupa, [Coleoptera]. Rec'd 6 Jun 1994. Solomon Islands.
- 4339 [DAT 485] AC Rath (F485) ← W Theunis (SOL IS 10). Pupa, [Coleoptera]. Rec'd 6 Jun 1994. Solomon Islands.
- 4340 [DAT 489] AC Rath (F489) ← W Theunis (SOL IS 14). Pupa, [Coleoptera]. Rec'd 6 Jun 1994. Solomon Islands.
- 4341 [DAT 487] AC Rath (F487) ← W Theunis (SOL IS 12). Adult, [Coleoptera]. Rec'd 6 Jun 1994. Solomon Islands.
- 4343 [DAT 496] AC Rath (F496). Soil. Rec'd 6 Jun 1994. Australia: Macquarie Island.
- 4344 [DAT 497] AC Rath (F497). Soil. Rec'd 6 Jun 1994. Australia: Macquarie Island.
- 4345 [DAT 498] AC Rath (F498). Soil. Rec'd 6 Jun 1994. Australia: Macquarie Island.
- 4346 [DAT 33] AC Rath (F033). *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. Rec'd 6 Jun 1994. Australia: Woodbury, Tasmania.
- 4347 [DAT 323] AC Rath (F323) ← H Yip (HY36). Soil. Rec'd 6 Jun 1994. Australia: Benham, Avoca, Tasmania.
- 4348 [DAT 284] AC Rath (F284) ← H Yip (HY76). Soil. Rec'd 6 Jun 1994. Australia: Benham, Avoca, Tasmania.
- 4349 [DAT 290] AC Rath (F290) ← H Yip (HY70). Soil. Rec'd 6 Jun 1994. Australia: Interlaken, Interlaken, Tasmania.
- 4350 [DAT 382] AC Rath (F382) ← H Yip (HY242). Soil. Rec'd 6 Jun 1994. Australia: Evandale, Tasmania.
- 4351 [DAT 383] AC Rath (F383) ← H Yip (HY241). Soil. Rec'd 6 Jun 1994. Australia: Campbelltown, Tasmania.
- 4352 [DAT 384] AC Rath (F384) ← H Yip (HY244). Soil. Rec'd 6 Jun 1994. Australia: Beaconsfield, Tasmania.
- 4354 [DAT 365] AC Rath (F365) ← H Yip (HY216). Soil. Rec'd 6 Jun 1994. Australia: Mt. Morriston, Ross, Tasmania.
- 4355 [DAT 157] AC Rath (F157) ← H Yip (HY204). Soil. Rec'd 6 Jun 1994. Australia: Westbury, Tasmania.
- 4357 [DAT 446] AC Rath (F446) ← H Yip (HY278). Soil. Rec'd 6 Jun 1994. Australia: Bothwell, Tasmania.
- 4450 LA Lacey (94105). Soil. 25 Apr 1994. Japan: Hokkaido University, Hokkaido Prefecture.
- 4522 JD Vandenberg (DBM11C). Larva, *Plutella xylostella* [Lepidoptera: Plutellidae] broccoli. Rec'd 13 Jul 1994. USA: Ontario County, New York.

Fungal Cultures

Metarhizium anisopliae sensu lato

- 4556 [DAT 506; IMI 384583] AC Rath (F506). *Boophilus* sp. [Acoli: Ixodidae]. 29 Sep 1993. USA: Florida.
- 4557 [DAT 481] AC Rath (F481). Pupa, [Coleoptera]. 22 Jun 1993. Solomon Islands.
- 4558 Pupa, [Coleoptera]. 22 Jun 1993. Solomon Islands.
- 4560 [DAT 408] AC Rath (F408) ← H Yip (HY268). Host not specified. 23 Nov 1988. Australia: Spreyton, Tasmania.
- 4562 Soil. 10 Jan 1989. Australia: Bruny Island, Tasmania.
- 4563 [DAT 373] AC Rath (F373) ← H Yip (HY233). Soil. 30 Sep 1988. Australia: Deddington, Tasmania.
- 4565 [DAT 263] AC Rath (F263) ← H Yip (HY97). Soil. 3 Jun 1988. Australia: Leighlands, Perth, Tasmania.
- 4567 [DAT 122] AC Rath (F122). Soil. 1 Mar 1988. Australia: Glen Morey, Woodbury, Tasmania.
- 4568 [DAT 510] AC Rath (F510). Larva, *Sericesthis micans* [Coleoptera: Scarabaeidae]. 11 Feb 1994. Australia: New South Wales.
- 4569 [DAT 495] AC Rath (F495). Soil. 22 Jun 1993. Australia: Macquarie Island.
- 4570 [DAT 494] AC Rath (F494). Soil. 22 Jun 1993. Australia: Macquarie Island.
- 4572 [DAT 479] AC Rath (F479) ← W Theunis (SOL IS 2). 3rd instar larva, [Coleoptera]. 22 Jun 1993. Solomon Islands.
- 4573 [DAT 361] AC Rath (F361) ← H Yip (HY220). Soil. 6 Oct 1988. Australia: Cethana, Tasmania.
- 4574 [DAT 516] AC Rath (F516). 3rd instar larva, *Anoplognathus hirsutus* [Coleoptera: Scarabaeidae]. 10 Mar 1994. Australia: Glen Innes, New England, New South Wales.
- 4576 [DAT 399] AC Rath (F399) ← H Yip (HY259). Soil. 28 Sep 1988. Australia: Cressy, Tasmania.
- 4577 [DAT 415] AC Rath (F415) ← H Yip (HY275). Soil. 3 Nov 1988. Australia: Whitefoord, Tasmania.
- 4578 [DAT 257] AC Rath (F257) ← H Yip (HY224). Soil. 1 Dec 1988. Australia: Bruny Island, Tasmania.
- 4579 [DAT 101] AC Rath (F101). Soil. 13 Jan 1988. Australia: Benham Estate, Avoca, Tasmania.
- 4581 [DAT 235] AC Rath (F235) ← H Yip (HY126). Soil. 11 Aug 1988. Australia: Interlaken, Interlaken, Tasmania.
- 4582 [DAT 478] AC Rath (F478) ← W Theunis (SOL IS1). 3rd instar larva, [Coleoptera]. 22 Jun 1993. Solomon Islands.
- 4584 [DAT 391] AC Rath (F391) ← H Yip (HY251). Soil. 22 Jun 1988. Australia: Beaconsfield, Tasmania.
- 4585 [DAT 398] AC Rath (F398) ← H Yip (HY258). Soil. 19 Sep 1988. Australia: Snug, Tasmania.
- 4586 [DAT 311] AC Rath (F311) and H Yip (HY48). Soil. 18 Feb 1988. Australia: Benham, Avoca, Tasmania.
- 4590 [DAT 414] AC Rath (F414) ← H Yip (HY274). Soil. 11 Mar 1988. Australia: Whitefoord, Tasmania.
- 4591 [DAT 300] AC Rath (F300) ← H Yip (HY59). Soil. 29 Feb 1988. Australia: Jericho, Tasmania.
- 4592 [DAT 35] AC Rath (F035). Soil. 1987. Australia: Woodbury, Tasmania.
- 4593 [DAT 265] AC Rath (F265) ← H Yip (HY95). Soil. 6 Mar 1988. Australia: Leighlands, Perth, Tasmania.
- 4594 [DAT 338] AC Rath (F338) ← H Yip (HY21). Soil. Spring 1988. Australia: Glen Morey, Woodbury, Tasmania.
- 4595 [DAT 296] AC Rath (F296) ← H Yip (HY63). Soil. 22 Mar 1988. Australia: Interlaken, Interlaken, Tasmania.
- 4596 [DAT 380] AC Rath (F380) ← H Yip (HY240). Soil. 16 Jun 1988. Australia: Smithton, Tasmania.
- 4599 [DAT 231] AC Rath (F231) ← H Yip (HY130). Soil. 18 Jul 1988. Australia: Leighlands, Perth, Tasmania.
- 4600 [DAT 470] AC Rath (F470). Larva, *Boreoides tasmaniensis* [Diptera: Stratiomyidae]. 13 Oct 1991. Australia: Huonville, Tasmania.
- 4602 [DAT 239] AC Rath (F239) ← H Yip (HY122). Soil. 8 Jul 1988. Australia: Preston, Tasmania.
- 4603 [DAT 359] AC Rath (F359) ← H Yip (HY222). Soil. 26 Oct 1988. Australia: Ormley, Tasmania.
- 4606 [DAT 339] AC Rath (F339) ← H Yip (HY20). Soil. 5 Jan 1988. Australia: Glen Morey, Woodbury, Tasmania.
- 4608 [DAT 117] AC Rath (F117). Soil. 14 Jan 1988. Australia: Benham Estate, Avoca, Tasmania.
- 4609 [DAT 271] AC Rath (F271) ← H Yip (HY89). Soil. 3 Jun 1988. Australia: Elverton, Blessington, Tasmania.
- 4613 [DAT 371] AC Rath (F371) ← H Yip (HY231). Soil. 27 Oct 1988. Australia: Bruny Island, Tasmania.
- 4614 [DAT 79] AC Rath (F079). Soil. 24 Dec 1987. Australia: Glen Morey, Woodbury, Tasmania.
- 4617 [DAT 292] AC Rath (F292) ← H Yip (HY68). Soil. 22 Mar 1988. Australia: York Plains, Tasmania.
- 4618 [DAT 402] AC Rath (F402) ← H Yip (HY262). Soil. 28 Sep 1988. Australia: Ross, Tasmania.
- 4619 [DAT 255] AC Rath (F255) ← H Yip (HY105). Soil. 8 Jun 1988. Australia: Sorell, Tasmania.
- 4620 [DAT 469] AC Rath (F469). Larva, *Boreoides tasmaniensis* [Diptera: Stratiomyidae]. 31 Oct 1991. Australia: Franklin, Tasmania.
- 4623 [DAT 71] AC Rath (F071). Soil. 23 Dec 1987. Australia: Glen Morey, Woodbury, Tasmania.
- 4624 [DAT 260] AC Rath (F260) ← H Yip (HY100). Soil. 3 Jun 1988. Australia: Leighlands, Perth, Tasmania.
- 4625 [DAT 93] AC Rath (F093). Soil. 20 Jan 1988. Australia: Glen Morey, Woodbury, Tasmania.
- 4626 [DAT 394] AC Rath (F394) ← H Yip (HY254). Soil. 22 Jun 1988. Australia: Bridport, Tasmania. Very small spores, looking much like *M. flavoviride*.

- 4627 [DAT 110] AC Rath (F110). Soil. 14 Jan 1988. Australia: Glengor Benham, Avoca, Tasmania.
- 4629 [DAT 164] AC Rath (F164) ← H Yip (HY197). Soil. 13 Oct 1988. Australia: Cambridge, Tasmania.
- 4630 [DAT 474] AC Rath (F474) ← W Theunis (PNG 2A). *Papuana* or cicada.. 22 Jun 1993. Papua New Guinea: LAE.
- 4631 [DAT 301] AC Rath (F301) ← H Yip (HY58). *Papuana* or cicada.. 29 Feb 1988. Australia: Rosehill, Jericho, Tasmania.
- 4632 [DAT 313] AC Rath (F313) ← H Yip (HY46). Soil. 18 Feb 1988. Australia: Benham, Avoca, Tasmania.
- 4633 [DAT 269] AC Rath (F269) ← H Yip (HY91). Soil. 3 Jun 1988. Australia: Leighlands, Perth, Tasmania.
- 4634 [DAT 340] AC Rath (F340) ← H Yip (HY19). Soil. 4 Jan 1988. Australia: Glen Morey, Woodbury, Tasmania.
- 4635 [DAT 233] AC Rath (F233) ← H Yip (HY128). Soil. 11 Aug 1988. Australia: Interlaken, Interlaken, Tasmania.
- 4636 [DAT 158] AC Rath (F258) ← H Yip (HY203). Soil. 26 Oct 1988. Australia: Railton, Tasmania.
- 4637 [DAT 262] AC Rath (F262) ← H Yip (HY95). Soil. 3 Jun 1988. Australia: Elverton, Blessington, Tasmania.
- 4638 [DAT 295] AC Rath (F29d) ← H Yip (HY65). Soil. 2 Mar 1988. Australia: Interlaken, Interlaken, Tasmania. With short, nearly ovoid, conidia.
- 4639 [DAT 272] AC Rath (F272) ← H Yip (HY88). Soil. 25 May 1988. Australia: Connerville, Poatina, Tasmania.
- 4640 [DAT 392] AC Rath (F392) ← H Yip (HY252). Soil. 16 Jun 1988. Australia: Edith Creek, Tasmania.
- 4641 [DAT 303] AC Rath (F303) ← H Yip (HY56). Soil. 29 Feb 1988. Australia: Avoca, Tasmania.
- 4643 [DAT 222] AC Rath (F222) ← H Yip (HY139). Soil. 23 Aug 1988. Australia: Burnie, Tasmania.
- 4645 [DAT 341] AC Rath (F341) ← H Yip (HY18). Soil. 2 Jan 1988. Australia: Lavender Farm, Lilydale, Tasmania.
- 4646 [DAT 108] AC Rath (F108). Soil. 14 Jan 1988. Australia: Benham Estate, Avoca, Tasmania.
- 4647 [DAT 270] AC Rath (F270) ← H Yip (HY90). Soil. 3 Jun 1988. Australia: Leighlands, Perth, Tasmania.
- 4648 [DAT 450] AC Rath (F450) ← H Yip (HY282). Soil. 10 Jan 1989. Australia: Waddamana, Tasmania.
- 4649 [DAT 80] AC Rath (F080). Soil. 24 Dec 1987. Australia: Glen Morey, Woodbury, Tasmania.
- 4650 [DAT 264] AC Rath (F264) ← H Yip (HY96). Soil. 3 Jun 1988. Australia: Leighlands, Perth, Tasmania.
- 4651 [DAT 240] AC Rath (F240) ← H Yip (HY121). Soil. 8 Jul 1988. Australia: Carrick, Tasmania.
- 4652 [DAT 458] AC Rath (F458). Host not specified. Rec'd 1 Sep 1994. Australia: Tasmania.
- 4653 [DAT 116] AC Rath (F116). Soil. Rec'd 1 Sep 1994. Australia: Benham Estate, Avoca, Tasmania.
- 4654 [DAT 403] AC Rath (F103) ← H Yip (HY263). Soil. 29 Sep 1988. Australia: Avoca, Tasmania.
- 4655 [DAT 356] AC Rath (F356) ← H Yip (HY225). Soil. 12 Jan 1988. Australia: Bruny Island, Tasmania.
- 4657 [DAT 266] AC Rath (F266) ← H Yip (HY94). Soil. 3 Jun 1988. Australia: Elverton, Blessington, Tasmania.
- 4661 [DAT 220] AC Rath (F220) ← H Yip (HY141). Soil. 23 Mar 1988. Australia: Burnie, Tasmania.
- 4663 [DAT 396] AC Rath (F396) ← H Yip (HY256). Soil. 22 Jun 1988. Australia: Tonganah, Tasmania.
- 4664 [DAT 389] AC Rath (F389) ← H Yip (HY249). Soil. 16 Jun 1988. Australia: Wynyard, Tasmania.
- 4665 [DAT 242] AC Rath (F242) ← H Yip (HY119). Soil. 8 Jul 1988. Australia: Latrobe, Tasmania.
- 4668 [DAT 378] AC Rath (F378) ← H Yip (HY238). Soil. 22 Jun 1988. Australia: Bridport, Tasmania.
- 4669 [DAT 372] AC Rath (F372) ← H Yip (HY232). Soil. 27 Oct 1988. Australia: Bruny Island, Tasmania.
- 4671 [DAT 447] AC Rath (F447) ← H Yip (HY279). Soil. 10 Jan 1989. Australia: Bothwell, Tasmania.
- 4673 [DAT 401] AC Rath (F401) ← H Yip (HY261). Soil. 28 Sep 1988. Australia: Cressy, Tasmania.
- 4674 [DAT 368] AC Rath (F368) ← H Yip (HY228). Soil. 27 Oct 1988. Australia: Bruny Island, Tasmania.
- 4676 [DAT 390] AC Rath (F390) ← H Yip (HY250). Soil. 23 Jun 1988. Australia: St Helens, Tasmania.
- 4677 [DAT 433] AC Rath (F433). Adult, *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. Summer 1990. Australia: Dairy Research Unit, Elliott, Tasmania.
- 4678 [DAT 98] AC Rath (F098). Soil. 6 Jan 1988. Australia: The Braes, Woodbury, Tasmania.
- 4681 [DAT 508] AC Rath (F508). Larva, *Wiseana* sp. [Lepidoptera: Hepialidae]. 17 Nov 1993. New Zealand: Waitati, Dunedin, South Island.
- 4682 [DAT 411] AC Rath (F411) ← H Yip (HY271). Soil. 3 Nov 1988. Australia: Whitefoord, Tasmania.
- 4683 [DAT 237] AC Rath (F237) ← H Yip (HY124). Soil. 8 Jul 1988. Australia: Sprent, Tasmania.
- 4684 [DAT 258] AC Rath (F258) ← H Yip (HY102). Soil. 8 Jun 1988. Australia: Sorell, Tasmania.
- 4687 [DAT 395] AC Rath (F395) ← H Yip (HY255). Soil. 17 Jun 1988. Australia: Burnie, Tasmania.
- 4716 [DAT 28] AC Rath (F028). *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. 1987. Australia: Woodbury, Tasmania.
- 4717 [DAT 74] AC Rath (F074). Soil. 23 Dec 1987. Australia: Glen Morey, Woodbury, Tasmania.
- 4718 [DAT 123] AC Rath (F123). Soil. 1 Mar 1988. Australia: Glen Morey, Woodbury, Tasmania.

- 4722 [DAT 141] AC Rath (F141). Larva, *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. Spring 1989. Australia: Wilmot, Tasmania.
- 4723 [DAT 159] AC Rath (F159) ← H Yip (HY202). Soil. 26 Oct 1988. Australia: Bracknell, Tasmania.
- 4724 [DAT 161] AC Rath (F161) ← H Yip (HY200). Soil. 26 Oct 1988. Australia: Campbelltown, Tasmania.
- 4725 [DAT 162] AC Rath (F162) ← H Yip (HY162). Soil. 13 Oct 1988. Australia: Franklin, Tasmania.
- 4726 [DAT 181] AC Rath (F181) ← H Yip (HY180). Soil. 26 Sep 1988. Australia: St Mary's, Tasmania.
- 4731 [DAT 257] AC Rath (F257) ← H Yip (HY103). Soil. 8 Jun 1988. Australia: Sorell, Tasmania.
- 4732 [DAT 262] AC Rath (F262) ← H Yip (HY99). Soil. 3 Jun 1988. Australia: Leighlands, Perth, Tasmania.
- 4733 [DAT 263] AC Rath (F263) ← H Yip (HY97). Soil. 3 Jun 1988. Australia: Leighlands, Perth, Tasmania.
- 4734 [DAT 267] AC Rath (F267) ← H Yip (HY93). Soil. 3 Jun 1988. Australia: Elverton, Blessington, Tasmania.
- 4735 [DAT 268] AC Rath (F268) ← H Yip (HY92). Soil. 3 Jun 1988. Australia: Elverton, Blessington, Tasmania.
- 4736 [DAT 277] AC Rath (F277) ← H Yip (HY83). Soil. 19 Apr 1988. Australia: Campbelltown, Tasmania.
- 4737 [DAT 294] AC Rath (F294) ← H Yip (HY66). Soil. 22 Mar 1988. Australia: Interlaken, Interlaken, Tasmania.
- 4738 [DAT 297] AC Rath (F297) ← H Yip (HY62). Soil. 22 Mar 1988. Australia: Tervue, York Plains, Tasmania.
- 4740 [DAT 302] AC Rath (F302) ← H Yip (HY57). Soil. 29 Feb 1988. Australia: Rosehill, Jericho, Tasmania.
- 4743 [DAT 344] AC Rath (F344) ← H Yip (HY15). Soil. 31 Dec 1987. Australia: Glen Morey, Woodbury, Tasmania.
- 4746 [DAT 349] AC Rath (F349) ← H Yip (HY9). Soil. 28 Dec 1987. Australia: The Braes, Woodbury, Tasmania.
- 4747 [DAT 350] AC Rath (F350) ← H Yip (HY8). Soil. 24 Dec 1987. Australia: The Braes, Woodbury, Tasmania.
- 4748 [DAT 351] AC Rath (F351) ← H Yip (HY7). Soil. 24 Dec 1987. Australia: The Braes, Woodbury, Tasmania.
- 4749 [DAT 352] AC Rath (F352) ← H Yip (HY6). Soil. 23 Dec 1987. Australia: The Braes, Woodbury, Tasmania.
- 4752 [DAT 355] AC Rath (F355) ← H Yip (HY226). Soil. 12 Jun 1988. Australia: Bruny Island, Tasmania.
- 4753 [DAT 362] AC Rath (F362) ← H Yip (HY219). Soil. 26 Oct 1988. Australia: Sheffield, Tasmania.
- 4754 [DAT 363] AC Rath (F363) ← H Yip (HY218). Soil. 26 Oct 1988. Australia: Sheffield, Tasmania.
- 4757 [DAT 374] AC Rath (F374) ← H Yip (HY234). Soil. 30 Sep 1988. Australia: Ben Lomond, Tasmania.
- 4758 [DAT 377] AC Rath (F377) ← H Yip (HY237). Soil. 22 Jun 1988. Australia: Beaconsfield, Tasmania.
- 4759 [DAT 388] AC Rath (F388) ← H Yip (HY248). Soil. 23 Jun 1988. Australia: St Mary's, Tasmania.
- 4760 [DAT 400] AC Rath (F400) ← H Yip (HY260). Soil. 19 Sep 1988. Australia: Cygnet, Tasmania.
- 4761 [DAT 404] AC Rath (F404) ← H Yip (HY264). Soil. 19 Sep 1988. Australia: Woodbridge, Tasmania.
- 4762 [DAT 405] AC Rath (F405) ← H Yip (HY265). Soil. 1 Sep 1988. Australia: Colebrook, Tasmania.
- 4763 [DAT 406] AC Rath (F406) ← H Yip (HY266). Soil. Rec'd 23 Sep 1994. Australia: Interlaken, Tasmania.
- 4764 [DAT 409] AC Rath (F409) ← H Yip (HY269). Soil. 23 Nov 1988. Australia: Campbelltown, Tasmania.
- 4766 [DAT 413] AC Rath (F413) ← H Yip (HY273). Soil. 3 Nov 1988. Australia: Whitefoord, Tasmania.
- 4773 [DAT 477] AC Rath (F477) ← W Theunis (PNG 2B). *Papuana* or cicada.. 22 Jun 1993. Papua New Guinea.
- 4774 [DAT 499] AC Rath (F499). Soil. 22 Jun 1993. Australia: Macquarie Island, Tasmania.
- 4777 [DAT 507] AC Rath (F507). Larva, *Sericesthis micans* [Coleoptera: Scarabaeidae]. 25 Oct 1993. Australia: Glen Innes, New England, New South Wales.
- 4778 [DAT 511] AC Rath (F511). Larva, *Sericesthis micans* [Coleoptera: Scarabaeidae]. 11 Feb 1994. Australia: New South Wales.
- 4779 [DAT 512] AC Rath (F512). 3rd instar larva, *Anoplognathus hirsutus* [Coleoptera: Scarabaeidae]. 24 Feb 1994. Australia: Glen Innes, New England, New South Wales.
- 4780 [DAT 513] AC Rath (F513). Larva, *Sericesthis nigrolineata* [Coleoptera: Scarabaeidae]. 10 Mar 1994. Australia: Glen Innes, New England, New South Wales.
- 4819 JD Vandenberg (63). Adult, *Otiorhynchus ligustici* [Coleoptera: Curculionidae] on *Medicago sativa* L., alfalfa. 26 Jun 1994. USA: Alfalfa field, Great Bend, New York.
- 4820 JD Vandenberg (18). Adult, *Otiorhynchus ligustici* [Coleoptera: Curculionidae] on *Medicago sativa* L., alfalfa. 26 Jun 1994. USA: Alfalfa field, Great Bend, New York.
- 4821 JD Vandenberg (29). Adult, *Otiorhynchus ligustici* [Coleoptera: Curculionidae] on *Medicago sativa* L., alfalfa. 26 Jun 1994. USA: Alfalfa field, Great Bend, New York.
- 4822 JD Vandenberg (JP1). Adult, *Otiorhynchus ligustici* [Coleoptera: Curculionidae] on *Medicago sativa* L., alfalfa. 26 Jun 1994. USA: Alfalfa field, Great Bend, New York.

- 4823 JD Vandenberg (21). Adult, *Otiorhynchus ligustici* [Coleoptera: Curculionidae] on *Medicago sativa* L., alfalfa. 26 Jun 1994. USA: Alfalfa field, Great Bend, New York.
- 4824 JD Vandenberg (29-2). Adult, *Otiorhynchus ligustici* [Coleoptera: Curculionidae] on *Medicago sativa* L., alfalfa. 26 Jun 1994. USA: Alfalfa field, Great Bend, New York.
- 4862 BL Parker (AVRDC-0440B). Soil Eggplant. 6 Oct 1994. Republic of China: Chi-Nan, Taiwan.
- 4865 BL Parker (AVRDC-0492B). Soil Eggplant. 10 Nov 1994. Republic of China: Chi-Nan, Taiwan.
- 4901 LA Lacey (95003). [Homoptera]. Rec'd 27 Apr 1995. Location not specified.
- 4902 LA Lacey (95004). [Homoptera]. Rec'd 27 Apr 1995. Location not specified.
- 4904 LA Lacey (95006). *Galleria mellonella* [Lepidoptera: Pyralidae] Used as bait. Feb 1995. Portugal: Terceira Island, Azores.
- 4905 LA Lacey (95007). *Galleria mellonella* [Lepidoptera: Pyralidae] Used as bait. Feb 1995. Portugal: Terceira Island, Azores.
- 4906 LA Lacey (95008). *Galleria mellonella* [Lepidoptera: Pyralidae] Used as bait. Feb 1995. Portugal: Terceira Island, Azores.
- 4907 LA Lacey (95009). *Popillia japonica* [Coleoptera: Scarabaeidae]. Dec 1994. Portugal: Terceira Island, Azores.
- 4908 LA Lacey (95010). *Popillia japonica* [Coleoptera: Scarabaeidae]. Dec 1994. Portugal: Terceira Island, Azores.
- 4925 LA Lacey (95027). Host not specified. Rec'd 27 Apr 1995. Portugal: Terceira Island, Azores.
- 4926 LA Lacey (95028). Host not specified. Rec'd 27 Apr 1995. Portugal: Terceira Island, Azores.
- 4927 LA Lacey (95029). Host not specified. Rec'd 27 Apr 1995. Portugal: Terceira Island, Azores.
- 4928 LA Lacey (95030). Host not specified. Rec'd 27 Apr 1995. Portugal: Terceira Island, Azores.
- 4929 LA Lacey (95031). Host not specified. Rec'd 27 Apr 1995. Portugal: Terceira Island, Azores.
- 4930 LA Lacey (95032). Host not specified. Rec'd 27 Apr 1995. Portugal: Terceira Island, Azores.
- 5161 DR Sosa-Gómez (CNPSo-Ma12). Soil. 5 Jan 1990. Brazil: Mauá, Paraná.
- 5369 I Klingen (NCRI 1-96 (01)). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] Soil sample (marine calcareous soil). 16 Sep 1996. Norway: Potato land (63.57° N), Åfjord, Sør Trøndelag.
- 5469 TJ Poprawski (TJP934). Larva, *Eoreuma loftini* [Lepidoptera: Pyralidae]. Rec'd 9 May 1997. USA: sugarcane field, Weslaco, Texas.
- 5513 I Klingen (PVF 10.1). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 5 Sep 1996. Norway: Bodø, Nordland. **RESTRICTED ACCESS:** contact Curator.
- 5514 I Klingen (PVF 10.2). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 5 Sep 1996. Norway: Bodø, Nordland.
- 5515 I Klingen (PVF 4.1). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 5 Sep 1996. Norway: Bodø, Nordland.
- 5516 I Klingen (PVF 6). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 5 Sep 1996. Norway: Bodø, Nordland.
- 5517 I Klingen (PVF 9.2). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 5 Sep 1996. Norway: Bodø, Nordland.
- 5518 I Klingen (TØF 22.4). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 26 Sep 1996. Norway: Steinkjer, Nord Trøndelag.
- 5519 I Klingen (TØF 22.5). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 26 Sep 1996. Norway: Steinkjer, Nord Trøndelag.
- 5520 I Klingen (TØF 22.1). Larva, *Delia floralis* [Diptera: Anthomyiidae] as bait from soil. 26 Sep 1996. Norway: Steinkjer, Nord Trøndelag.
- 5521 I Klingen (TØF 25.1). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 26 Sep 1996. Norway: Steinkjer, Nord Trøndelag.
- 5554 I Klingen (F1C.1). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 26 Jun 1997. Norway: Finnøy, Rogaland.
- 5555 I Klingen (F2C.1). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 26 Jun 1997. Norway: Finnøy, Rogaland.
- 5556 I Klingen (F3D.1). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 26 Jun 1997. Norway: Finnøy, Rogaland.
- 5624 I Vänninen (SF85-60). Larva, *Tribolium castaneum* [Coleoptera: Tenebrionidae] as bait from soil. 18 Jul 1985. Finland: Lapinjärvi, Uudenmaan Lääni.
- 5628 ST Jaronski (ER1). *Schistocerca gregaria* [Orthoptera: Acrididae]. 1996. Ethiopia: Eastern lowlands of coastal Eritrea, Shelsela.
- 5715 JM Sung (KEFC-356). Rec'd 11 May 1998.
- 5716 JM Sung (KEFC-642). Rec'd 11 May 1998.
- 5717 JM Sung (KEFC-835). Rec'd 11 May 1998.
- 5746 MCHCA Bernal (MaPL6). *Schistocerca piceifrons* [Orthoptera: Acrididae]. 1992. Mexico: Cerro de Ortega, Colima.
- 5749 MCHCA Bernal (MaPL35). *Schistocerca piceifrons* [Orthoptera: Acrididae]. 1992. Mexico: Cerro de Ortega, Colima.
- 5752 MCHCA Bernal (MaPL41). *Schistocerca piceifrons* [Orthoptera: Acrididae]. 1996. Mexico: Parral, Chia-pas.

- 5837 T Steenberg (SSL 14). Larva, *Alphitobius diaperinus* [Coleoptera: Tenebrionidae]. Rec'd 26 Aug 1998. Originally isolated from larva of *Agrotis segetum* [Lepidoptera: Noctuidae].
- 5841 T Steenberg (SSL 32). Larva, *Alphitobius diaperinus* [Coleoptera: Tenebrionidae]. Rec'd 26 Aug 1998. Originally isolated from *Anotylus* spp. [Coleoptera: Staphylinidae].
- 5842 T Steenberg (SSL 50). Larva, *Alphitobius diaperinus* [Coleoptera: Tenebrionidae]. Rec'd 26 Aug 1998. Originally isolated from soil.
- 5848 T Steenberg (SSL 75). Larva, *Alphitobius diaperinus* [Coleoptera: Tenebrionidae]. Rec'd 26 Aug 1998. Originally isolated from larvae of an unidentified beetle [Coleoptera].
- 5850 T Steenberg (SSL 84). Larva, *Alphitobius diaperinus* [Coleoptera: Tenebrionidae]. Rec'd 26 Aug 1998. Originally isolated from an unidentified beetle [Coleoptera].
- 5851 T Steenberg (SSL 248). [Araneida] on *Medicago sativa*. Oct 1991. Denmark: Copenhagen, Tåstrup, Zealand.
- 6167 M Filotas. *Malacosoma disstria* [Lepidoptera: Lasiocampidae]. Apr 1998. USA: Tug Hill Plateau, Richland, New York. Host infected in laboratory upon exposure to field collected soil.
- 6236 [RCEF 0386] [Phasmatodea: Phasmatidae]. 20 Sep 1997. PR China: Anhui.
- 6237 [RCEF 0389] [Orthoptera]. Rec'd 24 Aug 1999. PR China: Anhui.
- 6319 Adult, male, *Aeneolamia varia* [Homoptera: Cercopidae]. 25 Jun 1998. Colombia: Norglandia Farm, Albania, Caquetá.
- 6321 Adult, male, *Mahanarva* sp. [Homoptera: Cercopidae]. 25 Jun 1998. Colombia: Norglandia Farm, Albania, Caquetá.
- 6322 Adult, male, *Mahanarva* sp. [Homoptera: Cercopidae]. 25 Jun 1998. Colombia: Norglandia Farm, Albania, Caquetá.
- 6323 Adult, female, *Zulia pubescens* [Homoptera: Cercopidae]. 25 Jun 1998. Colombia: Norglandia Farm, Albania, Caquetá.
- 6324 Nymph, 16 Feb 1997. Colombia: Farm of C.I. Macagual, Florencia, Caquetá.
- 6326 5th instar larva, 23 Jan 1997. Colombia: Farm of C.I. Macagual, Florencia, Caquetá.
- 6342 Adult, *Aeneolamia varia* [Homoptera: Cercopidae]. 12 Feb 1999. Colombia: CIAT Farm, Palmira, Valle.
- 6343 Nymph, *Aeneolamia varia* [Homoptera: Cercopidae]. 11 May 1999. Colombia: CIAT Farm, Palmira, Valle.
- 6345 Adult, *Aeneolamia varia* [Homoptera: Cercopidae]. 11 May 1999. Colombia: CIAT Farm, Palmira, Valle.
- 6346 Adult, *Aeneolamia varia* [Homoptera: Cercopidae]. 11 May 1999. Colombia: CIAT Farm, Palmira, Valle.
- 6356 4th instar larva, *Zulia colombiana* [Homoptera: Cercopidae]. 22 May 1999. Colombia: La Palma Farm, Santander de Quilichao, Cauca.
- 6360 Adult, *Tagosodes orizicolus*. Jun 1998. Colombia: CIAT Farm, Palmira, Valle.
- 6388 TL Dubois (FS 3 # 1 (3)) ← SM Smith ← V D'Amico. Larva, late instar, *Anoplophora glabripennis* [Coleoptera: Cerambycidae] on twig. 19 Mar 1999. USA: Laboratory colony, USDA Forest Service, Hamden, Connecticut. Laboratory colony started from host originally obtained from infested maple wood collected in Chicago, Illinois, USA 5 March 1999.
- 6389 TL Dubois (SS 1 # 2 (1)) ← SM Smith. Larva, early instar, *Anoplophora glabripennis* [Coleoptera: Cerambycidae] from wood of *Acer* sp. 23 Mar 1999. USA: USDA APHIS ANG Base, Otis, Massachusetts. Laboratory colony started from host originally obtained from infested maple wood collected in Chicago, Illinois, USA 5 March 1999.
- 6414 EA Ouna (Kutui-10). Rec'd 22 Dec 1999.
- 6415 EA Ouna (Sudan P1 (a)). Rec'd 22 Dec 1999.
- 6417 EA Ouna (Sudan 4 (a)). Rec'd 22 Dec 1999.
- 6457 [CIAT 042] D Peck. Adult, *Zulia carbonaria* [Homoptera: Cercopidae]. 13 Jul 1999. Colombia: La Palma Farm, Santander de Quilichao, Cauca.
- 6468 [CIAT 053] D Peck. Adult, female, *Zulia carbonaria* [Homoptera: Cercopidae]. 2 Jun 1999. Colombia: La Palma Farm, Santander de Quilichao, Cauca.
- 6475 I Klingen (HVI.99). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. Fall 1999. Norway: Hvittingfoss, Buskerud.
- 6549 D Chandler (HRI 189.83). *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Rec'd 13 Jul 2000. United Kingdom.
- 6551 D Chandler (HRI 335.92). Larva, *Agriotes* sp. [Coleoptera: Elateridae]. Rec'd 13 Jul 2000. United Kingdom.
- 6558 D Chandler (HRI 378.93). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from woodland soil. Rec'd 13 Jul 2000. United Kingdom.
- 6570 D Chandler (HRI 391.93). *Pemphigus trehernei* [Homoptera: Aphididae]. Rec'd 13 Jul 2000. United Kingdom: coastal salt marshes, Norfolk, England.
- 6670 *Pachnoda interrupta* [Coleoptera: Scarabaeidae]. Rec'd 17 Jan 2001. Ethiopia: Harae, Northern Shoa.
- 6671 *Pachnoda interrupta* [Coleoptera: Scarabaeidae]. Rec'd 17 Jan 2001. Ethiopia: Shewa Robin, Northern Shoa.
- 6672 *Pachnoda interrupta* [Coleoptera: Scarabaeidae]. Rec'd 17 Jan 2001. Ethiopia: Kewot, Northern Shoa.
- 6673 *Pachnoda interrupta* [Coleoptera: Scarabaeidae]. Rec'd 17 Jan 2001. Ethiopia: Dedeaa, Northern Shoa.

- 6674 *Pachnoda interrupta* [Coleoptera: Scarabaeidae]. Rec'd 17 Jan 2001. Ethiopia: Rufe Kure, Northern Shoa.
- 6675 *Pachnoda interrupta* [Coleoptera: Scarabaeidae]. Rec'd 17 Jan 2001. Ethiopia: Rober, Northern Shoa.
- 6677 *Pachnoda interrupta* [Coleoptera: Scarabaeidae]. Rec'd 17 Jan 2001. Ethiopia: Dedeaa, Northern Shoa.
- 6678 *Pachnoda interrupta* [Coleoptera: Scarabaeidae]. Rec'd 17 Jan 2001. Ethiopia: Gobenaytu, Northern Shoa.
- 6679 *Pachnoda interrupta* [Coleoptera: Scarabaeidae]. Rec'd 17 Jan 2001. Ethiopia: Sefi Beret, Northern Shoa.
- 6680 *Pachnoda interrupta* [Coleoptera: Scarabaeidae]. Rec'd 17 Jan 2001. Ethiopia: Shewa Robin, Northern Shoa.
- 6682 *Pachnoda interrupta* [Coleoptera: Scarabaeidae]. Rec'd 17 Jan 2001. Ethiopia: Rufe Kure, Northern Shoa.
- 6683 *Pachnoda interrupta* [Coleoptera: Scarabaeidae]. Rec'd 17 Jan 2001. Ethiopia: Awaketu, Northern Shoa.
- 6684 *Pachnoda interrupta* [Coleoptera: Scarabaeidae]. Rec'd 17 Jan 2001. Ethiopia: Awaketu, Northern Shoa.
- 6685 *Pachnoda interrupta* [Coleoptera: Scarabaeidae]. Rec'd 17 Jan 2001. Ethiopia: Kewot, Northern Shoa.
- 6694 Phylum Arthropoda, Class Crustacea. Rec'd 17 Jan 2001. Ethiopia: Alamata, Welo.
- 6698 From soil. Rec'd 17 Jan 2001. Ethiopia: Arba Minch.
- 6700 Rec'd 17 Jan 2001. Kenya.
- 6756 GUL Braga and DW Roberts (DWR 86). 24 Feb 2000. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 1545 following UV-B exposure.
- 6757 GUL Braga and DW Roberts (DWR 88). 24 Feb 2000. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (yellow) obtained from ARSEF 1545 following UV-B exposure.
- 6758 GUL Braga and DW Roberts (DWR 90). 24 Feb 2000. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (yellow) obtained from ARSEF 1545 following UV-B exposure.
- 6759 GUL Braga and DW Roberts (DWR 91). 14 Apr 2000. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 1545 following UV-B exposure.
- 6760 GUL Braga and DW Roberts (DWR 92). 14 Apr 2000. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (yellow) obtained from ARSEF 1545 following UV-B exposure.
- 6761 GUL Braga and DW Roberts (DWR 137). 30 Apr 2000. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 1545 following UV-B exposure.
- 6762 GUL Braga and DW Roberts (DWR 138). 30 Apr 2000. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (yellow) obtained from ARSEF 1545 following UV-B exposure.
- 6763 GUL Braga and DW Roberts (DWR 146). 7 Sep 2000. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (yellow) obtained from ARSEF 23 following UV-B exposure.
- 6829 GUL Braga and DW Roberts (DWR 45). 24 Jun 1999. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from UNICAMP 38 following UV-B exposure.
- 6830 GUL Braga and DW Roberts (DWR 46). 22 Jun 1999. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from UNICAMP 38 following UV-B exposure.
- 6831 GUL Braga and DW Roberts (DWR 47). 9 Jun 1999. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from UNICAMP CLII following UV-B exposure.
- 6832 GUL Braga and DW Roberts (DWR 48). 12 Apr 1999. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 925 following UV-B exposure.
- 6833 GUL Braga and DW Roberts (DWR 49). 12 Apr 1999. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 925 following UV-B exposure.
- 6834 GUL Braga and DW Roberts (DWR 50). 12 Apr 1999. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 925 following UV-B exposure.
- 6835 GUL Braga and DW Roberts (DWR 51). 1 Apr 1999. USA: Utah State University, Department of Biology, Logan, Utah. Spontaneous color mutant (violet) obtained from ARSEF 1095.
- 6836 GUL Braga and DW Roberts (DWR 52). 24 Feb 1999. USA: Utah State University, Department of Biology, Logan, Utah. Spontaneous color mutant (violet) obtained from ARSEF 1095.
- 6837 GUL Braga and DW Roberts (DWR 53). 18 May 1999. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 1095 following UV-B exposure.
- 6838 GUL Braga and DW Roberts (DWR 54). 23 Mar 1999. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 1095 following UV-B exposure.
- 6839 GUL Braga and DW Roberts (DWR 55). 23 Mar 1999. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 1095 following UV-B exposure.
- 6840 GUL Braga and DW Roberts (DWR 58). 5 Jan 1999. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 1095 following UV-B exposure.

- 6849 GUL Braga and DW Roberts (DWR 67). 11 Apr 1999. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 23 following UV-B exposure.
- 6850 GUL Braga and DW Roberts (DWR 71). 23 Sep 1999. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (yellow) obtained from ARSEF 23 following UV-B exposure.
- 6860 GUL Braga and DW Roberts (DWR 167). 20 Feb 2001. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (yellow) obtained from ARSEF 23 following UV-B exposure.
- 6861 GUL Braga and DW Roberts (DWR 168). 16 Mar 2001. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (yellowish green) obtained from ARSEF 23 following UV-B exposure.
- 6862 GUL Braga and DW Roberts (DWR 170). 19 Feb 2001. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (yellow) obtained from ARSEF 23 following UV-B exposure.
- 6863 GUL Braga and DW Roberts (DWR 171). 29 Dec 2000. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (yellow) obtained from ARSEF 23 following UV-B exposure.
- 6901 I Klingen (NCRI 2/01/Ma). Larva, *Phyllopertha horticola* [Coleoptera: Scarabaeidae] in lawn. 23 May 2001. Norway: Moss, Østfold.
- 6909 JR Fuxa (G-6170). *Coptotermes formosanus* [Isoptera: Rhinotermitidae] as bait from soil. Jun 1999. USA: New Orleans, Louisiana.
- 6910 JR Fuxa (G-6292). *Coptotermes formosanus* [Isoptera: Rhinotermitidae] as bait from soil. Jun 1999. USA: Baton Rouge, Louisiana.
- 6911 JR Fuxa (G-7192). *Coptotermes formosanus* [Isoptera: Rhinotermitidae] as bait from soil. Jul 1999. USA: Lake Charles, Louisiana.
- 6930 ST Jaronski (TM10). Soil plated on oatmeal dodeine agar. 2000. USA: D. Danielson Farm, sugarbeet field, Richland County, Montana.
- 6958 ST Jaronski (MA1200). Rec'd 11 Jan 2002.
- 6959 ST Jaronski (MA51A). Rec'd 11 Jan 2002.
- 6960 ST Jaronski (MA71A). Rec'd 11 Jan 2002.
- 6989 GUL Braga and DW Roberts (DWR 142). 11 Sep 2000. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (yellow) obtained from ARSEF 23 following UV-B exposure.
- 6990 GUL Braga and DW Roberts (DWR 144). 16 Sep 2000. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (yellow) obtained from ARSEF 23 following UV-B exposure.
- 6991 GUL Braga and DW Roberts (DWR 145). 11 Sep 2000. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 23 following UV-B exposure.
- 6992 GUL Braga and DW Roberts (DWR 147). 1 Sep 2000. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 23 following UV-B exposure.
- 6993 GUL Braga and DW Roberts (DWR 148). 7 Sep 2000. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (yellow) obtained from ARSEF 23 following UV-B exposure.
- 6994 GUL Braga and DW Roberts (DWR 069). 26 Sep 1999. USA: Utah State University, Department of Biology, Logan, Utah. Spontaneous color mutant (yellow) obtained from ARSEF 23. Formerly IDed as MAA; changed by RAH, 02/2/2009.
- 6995 GUL Braga and DW Roberts (DWR 149). 1 Sep 2000. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 23 following UV-B exposure.
- 6996 GUL Braga and DW Roberts (DWR 176). 20 Apr 2001. USA: Utah State University, Department of Biology, Logan, Utah. Revertant (green) obtained from ARSEF 6995 following UV-B exposure.
- 6997 GUL Braga and DW Roberts (DWR 179). 22 Jun 2001. USA: Utah State University, Department of Biology, Logan, Utah. Revertant (green) obtained from ARSEF 6993 following UV-B exposure.
- 6998 GUL Braga and DW Roberts (DWR 180). 22 Jun 2001. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (white) obtained from ARSEF 6995 following UV-B exposure.
- 6999 GUL Braga and DW Roberts (DWR 181). 22 Jun 2001. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (white) obtained from ARSEF 6995 following UV-B exposure.
- 7000 LA Lacey (YARL 020128-1). Adult, *Limonius canus* [Coleoptera: Elateridae] reared in laboratory. Fall 2001. USA: Yakima Agricultural Research Laboratory, Wapato, Washington.
- 7001 LA Lacey (YARL 020128-2). Adult, *Limonius canus* [Coleoptera: Elateridae] reared in laboratory. Fall 2001. USA: Yakima Agricultural Research Laboratory, Wapato, Washington.
- 7002 LA Lacey (YARL 020128-3). Adult, *Limonius canus* [Coleoptera: Elateridae] reared in laboratory. Fall 2001. USA: Yakima Agricultural Research Laboratory, Wapato, Washington.
- 7003 LA Lacey (YARL 020128-4). Adult, *Limonius canus* [Coleoptera: Elateridae] reared in laboratory. Fall 2001. USA: Yakima Agricultural Research Laboratory, Wapato, Washington.
- 7004 LA Lacey (YARL 011219-7). *Limonius canus* [Coleoptera: Elateridae] reared in laboratory. Fall 2001. USA: Yakima Agricultural Research Laboratory, Wapato, Washington.
- 7005 LA Lacey (YARL 011219-9). *Limonius canus* [Coleoptera: Elateridae] reared in laboratory. Fall 2001.

- USA: Yakima Agricultural Research Laboratory, Wapato, Washington.
- 7006 LA Lacey (YARL 011219-10). *Limonius canus* [Coleoptera: Elateridae] reared in laboratory. Fall 2001. USA: Yakima Agricultural Research Laboratory, Wapato, Washington.
- 7007 LA Lacey (YARL 011219-11). *Limonius canus* [Coleoptera: Elateridae] reared in laboratory. Fall 2001. USA: Yakima Agricultural Research Laboratory, Wapato, Washington.
- 7008 LA Lacey (YARL 011219-14). *Limonius canus* [Coleoptera: Elateridae] reared in laboratory. Fall 2001. USA: Yakima Agricultural Research Laboratory, Wapato, Washington.
- 7009 LA Lacey (YARL 011219-15). *Limonius canus* [Coleoptera: Elateridae] reared in laboratory. Fall 2001. USA: Yakima Agricultural Research Laboratory, Wapato, Washington.
- 7014 I Klingen (NCRI 08/02). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 1 Oct 2001. Norway: apple orchard, Balestrand, Sogn og Fjordane.
- 7015 I Klingen (NCRI 09/02). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 1 Oct 2001. Norway: apple orchard, Balestrand, Sogn og Fjordane.
- 7016 I Klingen (NCRI 12/02). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 3 Oct 2001. Norway: apple orchard, Balestrand, Sogn og Fjordane.
- 7017 I Klingen (NCRI 14/02). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 3 Oct 2001. Norway: apple orchard, Balestrand, Sogn og Fjordane.
- 7018 I Klingen (NCRI 17/02). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 1 Oct 2001. Norway: apple orchard, Balestrand, Sogn og Fjordane.
- 7019 I Klingen (NCRI 19/02). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 3 Oct 2001. Norway: apple orchard, Balestrand, Sogn og Fjordane.
- 7020 I Klingen (NCRI 20/02). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 1 Oct 2001. Norway: apple orchard, Balestrand, Sogn og Fjordane.
- 7021 [I Klingen NCRI 21/02] *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 3 Oct 2001. Norway: apple orchard, Balestrand, Sogn og Fjordane.
- 7022 I Klingen (NCRI 26/02). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 3 Oct 2001. Norway: apple orchard, Balestrand, Sogn og Fjordane.
- 7023 I Klingen (NCRI 32/02). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 3 Oct 2001. Norway: apple orchard, Balestrand, Sogn og Fjordane.
- 7024 I Klingen (NCRI 40/02). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 3 Oct 2001. Norway: apple orchard, Balestrand, Sogn og Fjordane.
- 7025 I Klingen (NCRI 51/02). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 3 Oct 2001. Norway: apple orchard, Balestrand, Sogn og Fjordane.
- 7026 I Klingen (NCRI 52/02). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 3 Oct 2001. Norway: apple orchard, Balestrand, Sogn og Fjordane.
- 7059 E Groden (Ant 3 / Bio 1). *Myrmica rubra* [Hymenoptera: Formicidae]. 13 Aug 2002. USA: Otter Creek, north end of Otter Cove, Mt. Desert Island, Maine.
- 7180 H Liu (MSUFS-500). Adult, *Anoplophora glabripennis* [Coleoptera: Cerambycidae]. 5 Feb 2002. USA: Ravenswood, Chicago, Illinois.
- 7234 AE Hajek (VD-1) ← V D'Amico. Adult, *Anoplophora glabripennis* [Coleoptera: Cerambycidae] reared from wood collected in Chicago, IL. Rec'd 5 Jan 2004. USA: Laboratory colony, USDA Forest Service, Ansonia, Connecticut.
- 7411 [CSIRO FI-0151] *Lepidiota consobrina* [Coleoptera: Scarabaeidae]. 17 Jun 1986. Australia: Mossman, Queensland.
- 7451 [CSIRO FI-0993] *Heteronyx piceus* [Coleoptera: Scarabaeidae]. 28 Apr 1993. Australia: Larsen, Kingaroy, Queensland.
- 7452 [CSIRO FI-1041] *Dermolepida albohirtum* [Coleoptera: Scarabaeidae]. 5 Mar 1994. Australia: Tully, Queensland.
- 7474 [CEP 076] C López Lastra. [Homoptera: Cercopidae] on *Eryngium* sp. (Apiaceae). 24 Feb 2004. Argentina: Los Hornos, Buenos Aires.
- 7475 [CEP 078] C López Lastra. [Homoptera: Cercopidae] on *Eryngium* sp. (Apiaceae). 3 May 2004. Argentina: San Antonio de Areco, Buenos Aires.
- 7476 [CEP 086] C López Lastra. [Homoptera: Cercopidae] on *Eryngium* sp. (Apiaceae). 7 Apr 2004. Argentina: Colonia Urquiza, La Plata, Buenos Aires.
- 7485 [CSIRO FI-0726] From soil sample S31. 6 Dec 1990. Burma.
- 7489 [CSIRO FI-1095] ARSEF (441). *Teleogryllus commodus* [Orthoptera: Gryllidae]. 11 Mar 1980. Australia: Warnambool, Victoria.
- 7490 [CSIRO FI-1096] ARSEF (442). *Teleogryllus commodus* [Orthoptera: Gryllidae]. 11 Mar 1980. Australia: Hawkesdale, Victoria.
- 7492 [CSIRO FI-1350] *Dermolepida albohirtum* [Coleoptera: Scarabaeidae]. 2 Jun 1999. Laboratory experiment.

- 7494 [CSIRO FI-1363] CBS (316.51). *Agriotes* sp. [Coleoptera: Elateridae]. 23 Aug 1999. USA: Forest Grove, Oregon.
- 7496 [CSIRO FI-1402] *Antitrogus parvulus* [Coleoptera: Scarabaeidae]. 13 Apr 2000. Australia: Bundaberg, Queensland.
- 7498 [CSIRO FI-1410] *Agrianome spinicollis* [Coleoptera: Cerambycidae]. 26 Apr 2000. Australia: Moree, New South Wales.
- 7499 [CSIRO FI-1412] *Agrianome spinicollis* [Coleoptera: Cerambycidae]. 12 May 2000. Australia: Moree, New South Wales.
- 7500 [CSIRO FI-1414] *Agrianome spinicollis* [Coleoptera: Cerambycidae]. 1 Jun 2000. Australia: Moree, New South Wales.
- 7503 [CSIRO FI-1418] AMMRL 154.04. 5 Jun 2000. Australia: Royal North Shore Hospital, St. Leonards, New South Wales.
- 7504 [CSIRO FI-1425] *Lepidiota noxia* [Coleoptera: Scarabaeidae]. 18 Aug 2000. Australia: Bundaberg, Queensland.
- 7506 [CSIRO FI-1451] *Mastotermes* sp. [Isoptera: Mastotermitidae]. 13 Jul 2002.
- 7524 S Keller (714). Larva, *Agriotes* sp. [Coleoptera: Elateridae]. 28 Aug 2001. Switzerland: Jenaz, Graubünden.
- 7527 S Keller (800). Larva, [Coleoptera: Scarabaeidae]. 31 May 2002. Nepal: Parbat District.
- 7529 S Keller (885). Larva, [Coleoptera: Scarabaeidae]. Winter 2003. Nepal: Pang, Parbat District.
- 7532 S Keller (500). Adult, *Melolontha melolontha* [Coleoptera: Scarabaeidae]. 16 Jan 1995. Switzerland: Uri.
- 7535 E Groden (Plate #3). *Myrmica rubra* [Hymenoptera: Formicidae]. 12 Aug 2003. United Kingdom: Kimmeridge, Dorset, England. 50.37.11 N, 022.06.59 W, 133 m elevation.
- 7536 E Groden (Plate #4). *Myrmica scabrinodis* [Hymenoptera: Formicidae]. 16 Aug 2003. United Kingdom: Lynmouth, Devon, England. 51.12.15 N, 03.37.55 W, 230 m elevation.
- 7537 E Groden (Plate #5). *Myrmica rubra* [Hymenoptera: Formicidae]. 26 Aug 2003. United Kingdom: Rescombe, Dorset, England. 50.35.54 N, 02.03.05 W, 110 m elevation.
- 7538 E Groden (Plate #6). *Myrmica rubra* [Hymenoptera: Formicidae]. 22 Aug 2003. United Kingdom: Exeter, Devon, England. 50.44.10 N, 03.33.00 W, 22 m elevation.
- 7569 I Klingen (NCRI 53/02). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 1 Oct 2001. Norway: field margin of organic apple orchard, Balestrand, Sogn og Fjordane.
- 7570 I Klingen (NCRI 211/02). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 1 Oct 2001. Norway: Nessane, organic apple orchard, Balestrand, Sogn og Fjordane.
- 7571 I Klingen (NCRI 240/02). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 1 Oct 2001. Norway: Nessane, field margin of organic apple orchard, Balestrand, Sogn og Fjordane.
- 7572 I Klingen (NCRI 241/02). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 1 Oct 2001. Norway: Nessane, organic apple orchard, Balestrand, Sogn og Fjordane.
- 7573 I Klingen (NCRI 221/02). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 1 Oct 2001. Norway: Nessane, field margin of conventional apple orchard, Balestrand, Sogn og Fjordane.
- 7612 H Cortez Madrigal (MaA1). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] baiting in *Saccharum officinarum* L., sugar cane crop. Rec'd 14 Mar 2005. Mexico: Cárdenas, Tabasco.
- 7613 H Cortez Madrigal (MaA2). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] baiting in *Saccharum officinarum* L., sugar cane crop. Rec'd 14 Mar 2005. Mexico: Cárdenas, Tabasco.
- 7614 H Cortez Madrigal (MaA3). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] baiting in *Saccharum officinarum* L., sugar cane crop. Rec'd 14 Mar 2005. Mexico: Cárdenas, Tabasco.
- 7615 H Cortez Madrigal (MaA4). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] baiting in *Saccharum officinarum* L., sugar cane crop. Rec'd 14 Mar 2005. Mexico: Cárdenas, Tabasco.
- 7644 [SRCAM F-60] V Likhovidov (B-217) ← BA Borisov. Rec'd 14 Mar 2005.
- 7711 [I Earth BioScience F52; IMI 385045] T Corell. Rec'd 1 Jun 2005. Austria. **RESTRICTED ACCESS:** consult Curator.
- 7814 [CSIRO FI-0014] *Sericesthis nigrolineata* [Coleoptera: Scarabaeidae]. 16 Oct 1979. Australia: Anderson, Guyra, New South Wales.
- 7815 [CSIRO FI-0038] *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. 1 Jun 1981. Australia: Ballarat, Victoria.
- 7816 [CSIRO FI-0083] *Lepidiota squamulata* [Coleoptera: Scarabaeidae]. 5 Aug 1985. Australia: Mackay, Queensland.
- 7817 [CSIRO FI-0086] Isolated from soil sample. 27 Feb 1985. Australia: Cairns, Queensland.
- 7818 [CSIRO FI-0092] Isolated from soil sample. 11 Dec 1984. Australia: Mackay, Queensland.
- 7819 [CSIRO FI-0111] *Antitrogus parvulus* [Coleoptera: Scarabaeidae]. 30 Oct 1985. Australia: The Hummock, Bundaberg, Queensland.
- 7820 [CSIRO FI-0120] *Onkopera alboguttata* [Lepidoptera: Hepialidae]. 17 Dec 1985. Australia: Ebor, New South Wales.

- 7821 [CSIRO FI-0121] *Oncopera alboguttata* [Lepidoptera: Hepialidae]. 17 Dec 1985. Australia: Ebor, New South Wales.
- 7822 [CSIRO FI-0122] *Oncopera alboguttata* [Lepidoptera: Hepialidae]. 17 Dec 1985. Australia: Ebor, New South Wales.
- 7823 [CSIRO FI-0123] *Oncopera alboguttata* [Lepidoptera: Hepialidae]. 17 Dec 1985. Australia: Ebor, New South Wales.
- 7824 [CSIRO FI-0126] *Lepidiota gibbifrons* [Coleoptera: Scarabaeidae]. Jan 1986. Australia: Yeppoon, Queensland.
- 7825 [CSIRO FI-0143] *Lepidiota gibbifrons* [Coleoptera: Scarabaeidae]. 2 Apr 1986. Australia: Yeppoon, Queensland.
- 7826 [CSIRO FI-0144] *Lepidiota gibbifrons* [Coleoptera: Scarabaeidae]. 2 Apr 1986. Australia: Yeppoon, Queensland.
- 7827 [CSIRO FI-0148] *Lepidiota consobrina* [Coleoptera: Scarabaeidae]. 17 Jun 1986. Australia: Mossman, Queensland.
- 7828 [CSIRO FI-0150] *Lepidiota consobrina* [Coleoptera: Scarabaeidae]. 17 Jun 1986. Australia: Mossman, Queensland.
- 7829 [CSIRO FI-0154] *Lepidiota frenchi* [Coleoptera: Scarabaeidae]. 28 Jul 1986. Australia: Gordonvale, Queensland.
- 7830 [CSIRO FI-0157] *Lepidiota frenchi* [Coleoptera: Scarabaeidae]. 28 Jul 1986. Australia: Gordonvale, Queensland.
- 7831 [CSIRO FI-0160] *Lepidiota frenchi* [Coleoptera: Scarabaeidae]. 28 Jul 1986. Australia: Gordonvale, Queensland.
- 7832 [CSIRO FI-0165] *Lepidiota negatoria* [Coleoptera: Scarabaeidae]. 26 Nov 1986. Australia: Maryborough, Queensland.
- 7833 [CSIRO FI-0177] Isolated from soil sample. 22 Jan 1987. Australia: Bundaberg field site, Bundaberg, Queensland.
- 7834 [CSIRO FI-0179] Isolated from soil sample. 22 Jan 1987. Australia: Cairns field trial, Cairns, Queensland.
- 7835 [CSIRO FI-0181] Isolated from soil sample. 22 Jan 1987. Australia: Cairns field trial, Cairns, Queensland.
- 7836 [CSIRO FI-0182] Isolated from soil sample. 22 Jan 1987. Australia: Cairns field trial, Cairns, Queensland.
- 7837 [CSIRO FI-0188] Isolated from soil sample. 22 Jan 1987. Australia: Cairns field trial, Cairns, Queensland.
- 7838 [CSIRO FI-0189] Isolated from soil sample. 22 Jan 1987. Australia: Cairns field trial, Cairns, Queensland.
- 7839 [CSIRO FI-0191] *Antitrogus parvulus* [Coleoptera: Scarabaeidae]. 5 Feb 1987. Australia: Maryborough, Queensland.
- 7840 [CSIRO FI-0196] Larva, *Inopus rubriceps* [Diptera: Stratiomyidae]. 17 Feb 1987. Australia: Hapsberg, Tirroan via Gin Gin, Queensland.
- 7841 [CSIRO FI-0197] Larva, *Inopus rubriceps* [Diptera: Stratiomyidae]. 17 Feb 1987. Australia: Hapsberg, Tirroan via Gin Gin, Queensland.
- 7842 [CSIRO FI-0205] *Antitrogus mussoni* [Coleoptera: Scarabaeidae]. 23 Mar 1987. Australia: Yandaren, Bundaberg, Queensland.
- 7843 [CSIRO FI-0912] *Heteronyx* sp. [Coleoptera: Scarabaeidae]. 23 Jun 1992. Australia: Queensland.
- 7844 [CSIRO FI-0913] *Heteronyx* sp. [Coleoptera: Scarabaeidae]. 23 Jun 1992. Australia: Queensland.
- 7845 [CSIRO FI-0024] *Aphodius tasmaniae* [Coleoptera: Scarabaeidae]. 2 Jan 1981. Australia: South Australia.
- 7846 [CSIRO FI-0149] *Lepidiota consobrina* [Coleoptera: Scarabaeidae]. 17 Jun 1986. Australia: Mossman, Queensland.
- 7847 DEN Rangel and DW Roberts (DWR 200). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 13 Mar 2005. USA: Soil sample #13, Snowflake, Arizona. 34.42.924 N, 110.01.860 W, 5280 ft elevation.
- 7854 [CSIRO FI-0190] Adult, *Antitrogus parvulus* [Coleoptera: Scarabaeidae]. 5 Feb 1987. Australia: Maryborough, Queensland.
- 7855 [CSIRO FI-0193] Larva, *Inopus rubriceps* [Diptera: Stratiomyidae]. 17 Feb 1987. Australia: Hapsberg, Tirroan via Gin Gin, Queensland.
- 7856 [CSIRO FI-0194] Larva, *Inopus rubriceps* [Diptera: Stratiomyidae]. 17 Feb 1987. Australia: Hapsberg, Tirroan via Gin Gin, Queensland.
- 7857 [CSIRO FI-0195] Larva, *Inopus rubriceps* [Diptera: Stratiomyidae]. 17 Feb 1987. Australia: Hapsberg, Tirroan via Gin Gin, Queensland.
- 7858 [CSIRO FI-0199] Larva, *Inopus rubriceps* [Diptera: Stratiomyidae]. 17 Feb 1987. Australia: Hapsberg, Tirroan via Gin Gin, Queensland.
- 7859 [CSIRO FI-0200] Larva, *Inopus rubriceps* [Diptera: Stratiomyidae]. 17 Feb 1987. Australia: Hapsberg, Tirroan via Gin Gin, Queensland.
- 7860 [CSIRO FI-201] Larva, *Inopus rubriceps* [Diptera: Stratiomyidae]. 17 Feb 1987. Australia: Hapsberg, Tirroan via Gin Gin, Queensland.
- 7861 [CSIRO FI-0202] Larva, *Inopus rubriceps* [Diptera: Stratiomyidae]. 17 Feb 1987. Australia: Hapsberg, Tirroan via Gin Gin, Queensland.
- 7862 [CSIRO FI-0209] *Phaulacridium vittatum* [Orthoptera: Acrididae]. Spring 1987. Australia: Gininderra Experiment Station, Gininderra, New South Wales.

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Metarhizium anisopliae sensu lato

- 7863 [CSIRO FI-0211] *Sericesthis nigrolineata* [Coleoptera: Scarabaeidae]. 22 May 1987. Australia: Canberra, Australian Capital Territory.
- 7864 [CSIRO FI-0214] *Antitrogus parvulus* [Coleoptera: Scarabaeidae]. 22 May 1987. Australia: Childers, Queensland.
- 7865 [CSIRO FI-0218] *Antitrogus mussoni* [Coleoptera: Scarabaeidae]. 10 Jun 1987. Australia: Calavos, Bundaberg, Queensland.
- 7866 [CSIRO FI-0220] Rec'd 16 Sep 2005. Expt S131. Hybrid of FI-0114 and FI-0153.
- 7867 [CSIRO FI-0221] Isolated from soil sample. 14 Jul 1987. Australia: Tegege, Queensland.
- 7868 [CSIRO FI-0223] Isolated from soil sample. 14 Jul 1987. Australia: Tegege, Queensland.
- 7869 [CSIRO FI-0266] Isolated from soil sample. 29 Aug 1988. Australia: Pemberton, Western Australia.
- 7870 [CSIRO FI-0267] Isolated from soil sample. 29 Aug 1988. Australia: Pemberton, Western Australia.
- 7871 [CSIRO FI-0268] Isolated from soil sample. 29 Aug 1988. Australia: Pemberton, Western Australia.
- 7872 [CSIRO FI-0269] Isolated from soil sample. 29 Aug 1988. Australia: Pemberton, Western Australia.
- 7873 [CSIRO FI-0270] Isolated from soil sample. 29 Aug 1988. Australia: Pemberton, Western Australia.
- 7874 [CSIRO FI-0274] Isolated from soil sample. 29 Aug 1988. Australia: Pemberton, Western Australia.
- 7875 [CSIRO FI-0275] Isolated from soil sample. 29 Aug 1988. Australia: Pemberton, Western Australia.
- 7876 [CSIRO FI-0276] Isolated from soil sample. 29 Aug 1988. Australia: Pemberton, Western Australia.
- 7879 [CSIRO FI-0273] Isolated from soil sample. 29 Aug 1988. Australia: Pemberton, Western Australia.
- 7880 [CSIRO FI-0280] Isolated from soil sample. 13 Oct 1988. Australia: Busselton, Western Australia.
- 7881 [CSIRO FI-0282] Isolated from soil sample. 13 Oct 1988. Australia: Busselton, Western Australia.
- 7882 [CSIRO FI-0283] Isolated from soil sample. 13 Oct 1988. Australia: Busselton, Western Australia.
- 7883 [CSIRO FI-0284] Isolated from soil sample. 13 Oct 1988. Australia: Busselton, Western Australia.
- 7884 [CSIRO FI-0287] Isolated from soil sample. 13 Oct 1988. Australia: Busselton, Western Australia.
- 7885 [CSIRO FI-0289] Isolated from soil sample. 13 Oct 1988. Australia: Busselton, Western Australia.
- 7886 [CSIRO FI-0290] Isolated from soil sample. 13 Oct 1988. Australia: Busselton, Western Australia.
- 7887 [CSIRO FI-0291] Isolated from soil sample. 13 Oct 1988. Australia: Busselton, Western Australia.
- 7888 [CSIRO FI-0292] Isolated from soil sample. 13 Oct 1988. Australia: Busselton, Western Australia.
- 7892 [CSIRO FI-0298] Isolated from soil sample. Dec 1988. Australia: J. C. Peoples, Finch Hatton, Queensland.
- 7893 [CSIRO FI-0299] Isolated from soil sample. Dec 1988. Australia: J. C. Peoples, Finch Hatton, Queensland.
- 7894 [CSIRO FI-0300] Isolated from soil sample. Dec 1988. Australia: J. C. Peoples, Finch Hatton, Queensland.
- 7895 [CSIRO FI-0301] Isolated from soil sample. Dec 1988. Australia: J. C. Peoples, Finch Hatton, Queensland.
- 7896 [CSIRO FI-0302] Isolated from soil sample. Dec 1988. Australia: J. C. Peoples, Finch Hatton, Queensland.
- 7897 [CSIRO FI-0303] Isolated from soil sample. Dec 1988. Australia: J. C. Peoples, Finch Hatton, Queensland.
- 7898 [CSIRO FI-0304] Isolated from soil sample. Dec 1988. Australia: Finch Hatton Gorge, Langdon, Queensland.
- 7899 [CSIRO FI-0305] Isolated from soil sample. Dec 1988. Australia: Finch Hatton Gorge, Langdon, Queensland.
- 7900 [CSIRO FI-0307] Isolated from soil sample. Dec 1988. Australia: Vassallo, Brightly, Queensland.
- 7901 [CSIRO FI-0308] Isolated from soil sample. Dec 1988. Australia: Finch Hatton Gorge, Langdon, Queensland.
- 7902 [CSIRO FI-0309] Isolated from soil sample. Dec 1988. Australia: Finch Hatton Gorge, Langdon, Queensland.
- 7903 [CSIRO FI-0310] Isolated from soil sample. Dec 1988. Australia: Bassey, Mount Martin , Queensland.
- 7904 [CSIRO FI-0311] Isolated from soil sample. Dec 1988. Australia: Bassey, Mount Martin , Queensland.
- 7905 [CSIRO FI-0312] Isolated from soil sample. Dec 1988. Australia: Vassallo, Brightly, Queensland.
- 7906 [CSIRO FI-0313] Isolated from soil sample. Dec 1988. Australia: Vassallo, Brightly, Queensland.
- 7907 [CSIRO FI-0314] Isolated from soil sample. Dec 1988. Australia: Highams Bridge, Finch Hatton, Queensland.
- 7908 [CSIRO FI-0315] Isolated from soil sample. Dec 1988. Australia: Highams Bridge, Finch Hatton, Queensland.
- 7909 [CSIRO FI-0316] Isolated from soil sample. Dec 1988. Australia: Sybil Creek, Finch Hatton, Queensland.
- 7910 [CSIRO FI-0317] Isolated from soil sample. Dec 1988. Australia: Sybil Creek, Finch Hatton, Queensland.
- 7911 [CSIRO FI-0318] Isolated from soil sample. Dec 1988. Australia: Sybil Creek, Finch Hatton, Queensland.
- 7912 [CSIRO FI-0319] Isolated from soil sample. Dec 1988. Australia: Sybil Creek, Finch Hatton, Queensland.
- 7913 [CSIRO FI-0321] Isolated from soil sample. Dec 1988. Australia: Vigante, Devereux Creek, Queensland.
- 7914 [CSIRO FI-0324] Larva, *Inopus rubriceps* [Diptera: Stratiomyidae]. 17 Jan 1989. Australia: Sommerfield, Queensland.
- 7915 [CSIRO FI-0326] Larva, *Inopus rubriceps* [Diptera: Stratiomyidae]. 17 Jan 1989. Australia: Sommerfield, Queensland.

- 7916 [CSIRO FI-0332] Larva, *Inopus rubriceps* [Diptera: Stratiomyidae]. Winter 1989. Australia: Fairymead, Queensland.
- 7917 [CSIRO FI-0333] Larva, *Inopus rubriceps* [Diptera: Stratiomyidae]. Winter 1989. Australia: Fairymead, Queensland.
- 7918 [CSIRO FI-0334] Larva, *Inopus rubriceps* [Diptera: Stratiomyidae]. Winter 1989. Australia: Fairymead, Queensland.
- 7919 [CSIRO FI-0335] Larva, *Inopus rubriceps* [Diptera: Stratiomyidae]. Winter 1989. Australia: Fairymead, Queensland.
- 7920 [CSIRO FI-0336] Larva, *Inopus rubriceps* [Diptera: Stratiomyidae]. Winter 1989. Australia: Fairymead, Queensland.
- 7921 [CSIRO FI-0349] Rec'd 16 Sep 2005.
- 7925 [CSIRO FI-0351] Rec'd 16 Sep 2005.
- 7926 [CSIRO FI-0355] DG Holdom (030189-1). Larva, *Inopus rubriceps* [Diptera: Stratiomyidae]. Winter 1989. Australia: Walkers Point, Queensland.
- 7927 [CSIRO FI-0373] *Cryptotermes brevis* [Isoptera: Kalotermitidae]. 10 Mar 1989. BM cultures.
- 7928 [CSIRO FI-0374] *Cryptotermes brevis* [Isoptera: Kalotermitidae]. 10 Mar 1989. BM cultures.
- 7930 [CSIRO FI-0376] *Cryptotermes brevis* [Isoptera: Kalotermitidae]. 10 Mar 1989. BM cultures.
- 7931 [CSIRO FI-0377] *Antitrogus mussoni* [Coleoptera: Scarabaeidae]. 10 Mar 1989. Australia: Maidements, Bundaberg, Queensland.
- 7932 [CSIRO FI-0378] Adult, *Heteronychus arator* [Coleoptera: Scarabaeidae]. 28 Mar 1989. Australia: Busselton, Western Australia.
- 7933 [CSIRO FI-0380] Larva, *Heteronychus arator* [Coleoptera: Scarabaeidae]. 28 Mar 1989. Australia: Busselton, Western Australia.
- 7934 [CSIRO FI-0381] Larva, *Heteronychus arator* [Coleoptera: Scarabaeidae]. 28 Mar 1989. Australia: Busselton, Western Australia.
- 7935 [CSIRO FI-0382] Larva, *Heteronychus arator* [Coleoptera: Scarabaeidae]. 28 Mar 1989. Australia: Busselton, Western Australia.
- 7936 [CSIRO FI-0383] Larva, *Heteronychus arator* [Coleoptera: Scarabaeidae]. 28 Mar 1989. Australia: Busselton, Western Australia.
- 7967 LA Lacey (14B). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil sample. 4 Oct 2005. USA: Site 3 (Green), CRP soil 19-21, Alaska.
- 8014 BC King (41). Rec'd 7 Apr 2006. Canada: Pacific Spirit Regional Park, Vancouver, British Columbia. GenBank match - AB027383 (100%) LSU. **RE-STRICTED ACCESS: consult Curator.**
- 8015 MS Wright (C 4B). Alate, *Coptotermes formosanus* [Isoptera: Rhinotermitidae]. Rec'd 10 Apr 2006. USA: New Orleans, Louisiana. Subject of US Patent No. 7790151.
- 8059 [CSIRO FI-0558] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from mound material. 12 Jan 1990. Australia: Cotter, Australian Capital Territory.
- 8060 [CSIRO FI-0562] *Nasutitermes exitiosus* [Isoptera: Termitidae] from mound material. 10 Jan 1990. Australia: Conopaire State Forest, New South Wales.
- 8061 [CSIRO FI-0563] *Nasutitermes exitiosus* [Isoptera: Termitidae] from mound material. 10 Jan 1990. Australia: Conopaire State Forest, New South Wales.
- 8062 [CSIRO FI-0565] *Drepanotermes perniger* [Isoptera: Termitidae] from rubbish gallery. 22 Jan 1990. Australia: Beelbangera, New South Wales.
- 8063 [CSIRO FI-0567] *Coptotermes* sp. [Isoptera: Rhinotermitidae] from mudgut. 21 Feb 1990. Australia: sawmill, Batemans Bay, New South Wales.
- 8064 [CSIRO FI-0568] *Coptotermes acinaciformis* [Isoptera: Rhinotermitidae] from wood block. 21 Feb 1990. Australia: sawmill, Batemans Bay, New South Wales.
- 8067 [CSIRO FI-0572] *Coptotermes frenchi* [Isoptera: Rhinotermitidae] from tree stump. 5 Mar 1990. Australia: Binya State Forest, Yenda, New South Wales.
- 8068 [CSIRO FI-0573] *Nasutitermes exitiosus* [Isoptera: Termitidae] from mound material. 7 Mar 1990. Australia: Binya State Forest, Yenda, New South Wales.
- 8069 [CSIRO FI-0574] *Nasutitermes exitiosus* [Isoptera: Termitidae] from mound material. 13 Mar 1990. Australia: 16 km north of Goulburn, Goulburn, New South Wales.
- 8070 [CSIRO FI-0577] *Nasutitermes exitiosus* [Isoptera: Termitidae] from mound material. 19 Mar 1990. Australia: 3 km north of Michelago, Michelago, New South Wales.
- 8071 [CSIRO FI-0581] *Nasutitermes exitiosus* [Isoptera: Termitidae] from mound material. 20 Mar 1990. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 8072 [CSIRO FI-0582] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from mound material. 20 Mar 1990. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 8073 [CSIRO FI-0583] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from mound material. 20 Mar 1990. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 8074 [CSIRO FI-0584] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from mound material. 20 Mar 1990. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 8075 [CSIRO FI-0585] *Nasutitermes exitiosus* [Isoptera: Termitidae] from mound material. 16 Mar 1990. Australia: South Head, Moruya, New South Wales.

Fungal Cultures

Metarhizium anisopliae sensu lato

- 8080 [CSIRO FI-0586] *Nasutitermes exitiosus* [Isoptera: Termitidae] from mound material. 16 Mar 1990. Australia: South Head, Moruya, New South Wales.
- 8081 [CSIRO FI-0587] *Coptotermes acinaciformis* [Isoptera: Rhinotermitidae] from nest?. 16 Mar 1990. Australia: South Head, Moruya, New South Wales.
- 8082 [CSIRO FI-0589] *Nasutitermes exitiosus* [Isoptera: Termitidae] from mound material. 16 Mar 1990. Australia: South Head, Moruya, New South Wales.
- 8083 [CSIRO FI-0590] *Nasutitermes exitiosus* [Isoptera: Termitidae] from mound material. 16 Mar 1990. Australia: South Head, Moruya, New South Wales.
- 8084 [CSIRO FI-0591] *Nasutitermes exitiosus* [Isoptera: Termitidae] from mound material. 16 Mar 1990. Australia: South Head, Moruya, New South Wales.
- 8085 [CSIRO FI-0592] *Nasutitermes exitiosus* [Isoptera: Termitidae] from mound material. 16 Mar 1990. Australia: South Head, Moruya, New South Wales.
- 8086 [CSIRO FI-0593] *Nasutitermes exitiosus* [Isoptera: Termitidae] from mound material. 16 Mar 1990. Australia: South Head, Moruya, New South Wales.
- 8087 [CSIRO FI-0594] *Coptotermes acinaciformis* [Isoptera: Rhinotermitidae] from nest?. 16 Mar 1990. Australia: Runnyford Bridge, South Coast, New South Wales.
- 8088 [CSIRO FI-0595] *Coptotermes acinaciformis* [Isoptera: Rhinotermitidae] from nest?. 16 Mar 1990. Australia: Runnyford Bridge, South Coast, New South Wales.
- 8089 [CSIRO FI-0596] *Coptotermes* sp. [Isoptera: Rhinotermitidae] from mudgut?. Mar 1990. Australia: Bermagui Mill, New South Wales.
- 8090 [CSIRO FI-0597] *Nasutitermes exitiosus* [Isoptera: Termitidae] from mound material. Mar 1990. Australia: Beauty Point, North Bermagui, New South Wales.
- 8091 [CSIRO FI-0598] *Nasutitermes exitiosus* [Isoptera: Termitidae] from mound material. Mar 1990. Australia: Beauty Point, North Bermagui, New South Wales.
- 8092 [CSIRO FI-0599] *Coptotermes* sp. [Isoptera: Rhinotermitidae] from mudgut. 14 Mar 1990. Australia: Ulladulla Mill, New South Wales.
- 8093 [CSIRO FI-0600] *Coptotermes* sp. [Isoptera: Rhinotermitidae] from mudgut?. 13 Mar 1990. Australia: Nowra Mill, New South Wales.
- 8094 [CSIRO FI-0601] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from mound material. 14 Mar 1990. Australia: 2 km W Princes Highway near Sussex Inlet, South Coast, New South Wales.
- 8095 [CSIRO FI-0602] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from mound material. 14 Mar 1990. Australia: 2 km W Princes Highway near Sussex Inlet, South Coast, New South Wales.
- 8096 [CSIRO FI-0654] from feeding site8 Apr 1990. Australia: 5 km south, Old Bonalbo, New South Wales.
- 8097 [CSIRO FI-0655] *Nasutitermes exitiosus* [Isoptera: Termitidae] from mound material. 5 Apr 1990. Australia: 15 km west, Inverell, New South Wales.
- 8098 [CSIRO FI-0658] [Coleoptera: Curculionidae]. 29 May 1990. CSIRO, Nematodes Laboratory.
- 8099 [CSIRO FI-0659] [Coleoptera: Curculionidae]. 29 May 1990. CSIRO, Nematodes Laboratory.
- 8100 [CSIRO FI-0661] *Nasutitermes exitiosus* [Isoptera: Termitidae]. 13 Jul 1990. Australia: Pearce RAAF Base, Bullsbrook, Western Australia.
- 8101 [CSIRO FI-0662] 13 Jul 1990. Australia: Pearce RAAF Base, Bullsbrook, Western Australia.
- 8102 [CSIRO FI-0664] 13 Jul 1990. Australia: Paynes Find, Western Australia.
- 8103 [CSIRO FI-0666] 16 Jul 1990.
- 8104 [CSIRO FI-0667] 16 Jul 1990.
- 8105 16 Jul 1990.
- 8106 16 Jul 1990.
- 8107 Acc'd Sep 2006.
- 8108 Acc'd Sep 2006.
- 8109 Acc'd Sep 2006.
- 8196 LA Castrillo (MI-17). Isolated from soil sample, base of tree #1. 13 Jun 2006. USA: Gee Farms Nursery, Jackson County, Michigan.
- 8197 LA Castrillo (MI-18). Isolated from soil sample, base of tree #13. 13 Jun 2006. USA: Gee Farms Nursery, Jackson County, Michigan.
- 8198 LA Castrillo (MI-19). Isolated from soil sample, base of tree #63. 13 Jun 2006. USA: Gee Farms Nursery, Jackson County, Michigan.
- 8199 LA Castrillo (MI-20). Isolated from soil sample, base of tree #52. 13 Jun 2006. USA: Gee Farms Nursery, Jackson County, Michigan.
- 8212 S Entz (20W-5). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. May 2004. Canada: fallow wheat field 30 km east of Milk River, Alberta.
- 8215 [CSIRO FI-0710] Isolated from soil sample S5. 23 Nov 1990. Burma.
- 8216 [CSIRO FI-0711] Isolated from soil sample S5. 23 Nov 1990. Burma.
- 8217 [CSIRO FI-0713] Isolated from soil sample S21. 6 Dec 1990. Burma.
- 8218 [CSIRO FI-0714] Isolated from soil sample S15. 6 Dec 1990. Burma.
- 8219 [CSIRO FI-0715] Isolated from soil sample S28. 6 Dec 2006. Burma.
- 8220 [CSIRO FI-0716] Isolated from soil sample S14. 6 Dec 1990. Burma.
- 8221 [CSIRO FI-0717] Isolated from soil sample KAN PYA. 6 Dec 1990. Burma.

- 8222 [CSIRO FI-0718] Isolated from soil sample S21. 6 Dec 1990. Burma.
- 8223 [CSIRO FI-0719] Isolated from soil sample S21. 6 Dec 1990. Burma.
- 8224 [CSIRO FI-0720] Isolated from soil sample S21. 6 Dec 1990. Burma.
- 8225 [CSIRO FI-0721] Isolated from soil sample S25. 6 Dec 1990. Burma.
- 8226 [CSIRO FI-0722] Isolated from soil sample S21. 6 Dec 1990. Burma.
- 8227 [CSIRO FI-0727] Isolated from soil sample S31. 6 Dec 1990. Burma.
- 8228 [CSIRO FI-0728] Isolated from soil sample S31. 6 Dec 1990. Burma.
- 8229 [CSIRO FI-0729] *Nasutitermes exitiosus* [Isoptera: Termitidae] from mound A (A1). 9 Jan 1991. Australia: Manar Creek, Braidwood, New South Wales.
- 8230 [CSIRO FI-0730] *Nasutitermes exitiosus* [Isoptera: Termitidae] from soil around mound A (A14). 9 Jan 1991. Australia: Manar Creek, Braidwood, New South Wales.
- 8231 [CSIRO FI-739] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound F (F19). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 8232 [CSIRO FI-0744] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound F (F13). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 8233 [CSIRO FI-0749] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from mound G (G3). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 8234 [CSIRO FI-750] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound G (G11). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 8235 [CSIRO FI-0756] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound G (G18). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 8236 [CSIRO FI-765] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound G (G14). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 8248 LA Castrillo (SFMa1) ← M Filotas. Pupa, *Scatella tenuicosta* [Diptera: Ephydriidae]. 2003. USA: Cornell University, greenhouse, Ithaca, New York.
- 8249 LA Castrillo (SFMa2) ← M Filotas. Pupa, *Scatella tenuicosta* [Diptera: Ephydriidae]. 2003. USA: Cornell University, greenhouse, Ithaca, New York.
- 8270 RJ Pereault (masi#1). Isolated from soil sample. Jul 2006. USA: Northport, Michigan.
- 8319 N Hudson (GmMa1). Rec'd 21 Dec 2006. **RE-STRICTED ACCESS:** consult Curator.
- 8323 AC Churchill (MaNPS1 Ect A-18). 6 Apr 2004. USA: Boyce Thompson Institute for Plant Research, Ithaca, New York.
- 8324 AC Churchill (MaNPS1 KO B1-3). 6 Apr 2004. USA: Boyce Thompson Institute for Plant Research, Ithaca, New York.
- 8325 AC Churchill (MaNPS1 KO 8-18). 6 Apr 2004. USA: Boyce Thompson Institute for Plant Research, Ithaca, New York.
- 8326 AC Churchill (MaNPS1 KO 37-2). 6 Apr 2004. USA: Boyce Thompson Institute for Plant Research, Ithaca, New York.
- 8327 AC Churchill (MaNPS1 KO 43-1). 6 Apr 2004. USA: Boyce Thompson Institute for Plant Research, Ithaca, New York.
- 8334 Z Demirbag (KTU-2). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 13 Jul 2006. Turkey: Ardesen, Rize.
- 8335 Z Demirbag (KTU-3). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 13 Jul 2006. Turkey: Derepaçari, Rize.
- 8336 Z Demirbag (KTU-4). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 13 Jul 2006. Turkey: Derepaçari, Rize.
- 8338 Z Demirbag (KTU-6). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 13 Jul 2006. Turkey: Derepaçari, Rize.
- 8341 Z Demirbag (KTU-9). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 22 Jul 2006. Turkey: Terme, Samsun.
- 8342 Z Demirbag (KTU-10). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 22 Jul 2006. Turkey: Ordu.
- 8344 Z Demirbag (KTU-12). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 22 Jul 2006. Turkey: Persembe, Ordu.
- 8346 Z Demirbag (KTU-14). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 3 Aug 2006. Turkey: Çambunu, Sürmene, Trabzon.
- 8347 Z Demirbag (KTU-15). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 16 Sep 2006. Turkey: Borçka, Artvin.
- 8350 Z Demirbag (KTU-18). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 16 Sep 2006. Turkey: Murgul, Artvin.
- 8351 Z Demirbag (KTU-19). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 16 Sep 2006. Turkey: Murgul, Artvin.
- 8352 Z Demirbag (KTU-20). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 16 Sep 2006. Turkey: Camili, Artvin.
- 8353 Z Demirbag (KTU-21). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 16 Sep 2006. Turkey: Borçka, Artvin.

- 8357 DEN Rangel and DW Roberts (DWR 313). 3 Jun 2006. USA: Coconino National Forest, Oak Creek Canyon, Coconino County, Arizona. 34.57.271 N, 111.45.480 W, 5037 ft elevation.
- 8358 DEN Rangel and DW Roberts (DWR 338). 28 May 2006. USA: Hwy 89A, Jacob Lake, Arizona. 36.43.555 N, 112.07.522 W, 6942 ft elevation.
- 8362 DEN Rangel and DW Roberts (DWR 217). Rec'd 20 Feb 2007.
- 8363 DEN Rangel and DW Roberts (DWR 200). 13 Mar 2005. USA: Snowflake, Arizona. 34.42.924 N, 110.01.860 W, 5280 ft elevation.
- 8364 DEN Rangel and DW Roberts (DWR 203). 13 Mar 2005. USA: Winslow, Arizona. 35.03.225 N, 110.35.388 W, 5068 ft elevation.
- 8365 DEN Rangel and DW Roberts (DWR 261). 6 Aug 2006. USA: Talkeetna, Alaska. 61.26.728 N, 149.22.150 W, 232 ft elevation.
- 8366 DEN Rangel and DW Roberts (DWR 312). 2004. USA: Green Canyon, Logan, Utah.
- 8367 DEN Rangel and DW Roberts (DWR 346). 28 May 2006. USA: Snowflake, Arizona. 34.41.222 N, 110.06.199 W, 5572 ft elevation.
- 8375 [CEP 003; LPSC 904] AV Toledo. Soil of *Sorghum bicolor* (L.) Moench, sorghum crop. 13 Jul 2003. Argentina: Los Hornos, Buenos Aires.
- 8376 [CEP 160; LPSC 908] AV Toledo. Adult, [Homoptera: Cercopidae] on *Eryngium* sp. (Apiaceae). 6 Oct 2004. Argentina: Esteros del Iberá, Corrientes.
- 8377 [CEP 178; LPSC 909] AV Toledo. Adult, *Kanaima fluvialis* [Homoptera: Cercopidae] on *Eryngium* sp. (Apiaceae). Nov 2004. Argentina: Bella Vista, Corrientes.
- 8415 AE Hajek (FS6). Larva, *Anoplophora glabripennis* [Coleoptera: Cerambycidae]. 5 Mar 1999. USA: Quarantine colony, USDA Forest Service, Ansonia, Connecticut.
- 8416 AE Hajek (VD3). Adult, *Anoplophora glabripennis* [Coleoptera: Cerambycidae]. 26 Sep 1999. USA: Quarantine colony, USDA Forest Service, Ansonia, Connecticut.
- 8417 AE Hajek (VD7). Adult, *Anoplophora glabripennis* [Coleoptera: Cerambycidae]. 20 Jul 1999. USA: Quarantine colony, USDA Forest Service, Ansonia, Connecticut.
- 8418 AE Hajek (VD8). Adult, *Anoplophora glabripennis* [Coleoptera: Cerambycidae]. 10 Jul 1999. USA: Quarantine colony, USDA Forest Service, Ansonia, Connecticut.
- 8419 AE Hajek (VD9). Adult, *Anoplophora glabripennis* [Coleoptera: Cerambycidae]. 8 Jul 1999. USA: Quarantine colony, Ansonia, Connecticut.
- 8420 AE Hajek (WU19). Adult, *Anoplophora glabripennis* [Coleoptera: Cerambycidae]. 25 Jul 2000. PR China: Wuhe, Anhui.
- 8432 Z Demirbag (KTU-26). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 13 Apr 2007. Turkey: Kalkandere, Rize.
- 8433 Z Demirbag (KTU-27). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 13 Apr 2007. Turkey: Ikizdere, Rize.
- 8434 Z Demirbag (KTU-28). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 13 Apr 2007. Turkey: Ikizdere, Rize.
- 8435 Z Demirbag (KTU-29). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 13 Apr 2007. Turkey: Güneysu, Rize.
- 8436 Z Demirbag (KTU-30). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 13 Apr 2007. Turkey: Çaykara, Trabzon.
- 8437 Z Demirbag (KTU-31). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 22 Jul 2006. Turkey: Bolaman, Ordu.
- 8438 Z Demirbag (KTU-32). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 22 Jul 2006. Turkey: Bolaman, Ordu.
- 8440 Z Demirbag (KTU-34). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 22 Jul 2006. Turkey: Fatsa, Ordu.
- 8443 Z Demirbag (KTU-37). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 13 Mar 2007. Turkey: Görele, Giresun.
- 8445 Z Demirbag (KTU-39). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 20 Mar 2007. Turkey: Ulubey, Ordu.
- 8446 Z Demirbag (KTU-40). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 13 Apr 2007. Turkey: Akçaabat, Trabzon.
- 8447 Z Demirbag (KTU-41). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 13 Apr 2007. Turkey: Kalkandere, Rize.
- 8450 Z Demirbag (KTU-44). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 13 Apr 2007. Turkey: Of, Trabzon.
- 8451 Z Demirbag (KTU-45). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 13 Apr 2007. Turkey: Of, Trabzon.
- 8452 Z Demirbag (KTU-46). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 13 Apr 2007. Turkey: Güneysu, Rize.
- 8453 Z Demirbag (KTU-47). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 13 Apr 2007. Turkey: Salarha, Rize.
- 8454 Z Demirbag (KTU-48). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 13 Apr 2007. Turkey: Of, Trabzon.
- 8492 [CSIRO FI-0012] *Rhopaea magnicornis* [Coleoptera: Scarabaeidae]. 16 Oct 1979. Australia: McKemey's, Guyra, New South Wales.

- 8495 [CSIRO FI-0019] Pupa, *Rhopaea verreauxii* [Coleoptera: Scarabaeidae]. 13 Feb 1980. Australia: Dorrigo, New South Wales.
- 8496 [CSIRO FI-0320] Isolated from soil sample. Dec 1988. Australia: Vigante, Devereux Creek, Queensland.
- 8497 [CSIRO FI-0337] Larva, *Inopus rubriceps* [Diptera: Stratiomyidae]. Winter 1989. Australia: Fairymead, Queensland.
- 8498 [CSIRO FI-0390] [Homoptera: Cercopidae]. 29 Mar 1989. Brazil.
- 8499 [CSIRO FI-0396] *Phyllophaga anxia* [Coleoptera: Scarabaeidae]. 29 Mar 1989. Canada: Southern Québec.
- 8500 [CSIRO FI-0522] *Heteronyx piceus* [Coleoptera: Scarabaeidae]. 27 Jun 1989. Australia: Kingaroy, Queensland.
- 8501 [CSIRO FI-0529] *Lepidiota picticollis* [Coleoptera: Scarabaeidae]. 28 Jul 1989. Laboratory experiment.
- 8502 [CSIRO FI-0560] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from mound material. 12 Jan 1990. Australia: Cotter, Australian Capital Territory.
- 8503 [CSIRO FI-0741] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound F (F14). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 8504 [CSIRO FI-0751] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound G (G11). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 8505 [CSIRO FI-0752] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound G (G11). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 8506 [CSIRO FI-0753] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound G (G20). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 8507 [CSIRO FI-0754] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound G (G20). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 8508 [CSIRO FI-0757] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound G (G17). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 8509 [CSIRO FI-0759] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound G (G13). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 8510 [CSIRO FI-0762] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound G (G15). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 8511 [CSIRO FI-0763] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound G (G14). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 8512 [CSIRO FI-0767] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound G (G12). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 8513 [CSIRO FI-0772] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from mound G (G9). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 8514 [CSIRO FI-0773] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound G (G19). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 8515 [CSIRO FI-0774] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound I (I14). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 8516 [CSIRO FI-0778] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from mound I (I2). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 8517 [CSIRO FI-0779] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound J (J14). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 8518 [CSIRO FI-0780] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound I (I11). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 8527 [CEP 122] AV Toledo. Adult, [Homoptera: Cercopidae] on *Eryngium* sp. (Apiaceae). 18 May 2004. Argentina: La Plata, Buenos Aires.
- 8531 [CSIRO FI-0781] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound H (H11). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 8532 [CSIRO FI-0782] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound H (H18). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 8533 [CSIRO FI-0784] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound H (H14). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 8534 [CSIRO FI-0786] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound J (J14). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 8535 [CSIRO FI-0790] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound G (G12). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

- 8536 [CSIRO FI-0791] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound I (I12). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 8537 [CSIRO FI-0792] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound I (I14). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 8538 [CSIRO FI-0794] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from mound I (I1). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 8539 [CSIRO FI-0795] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from mound I (I1). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 8540 [CSIRO FI-0796] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from mound I (I1). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 8541 [CSIRO FI-0797] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from mound I (I1). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 8542 [CSIRO FI-0799] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound J (J14). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 8543 [CSIRO FI-0804] [Coleoptera: Elateridae]. 19 Feb 1991. Australia: Melbourne, Victoria.
- 8544 [CSIRO FI-0805] [Coleoptera: Elateridae]. 19 Feb 1991. Australia: Melbourne, Victoria.
- 8545 [CSIRO FI-0806] [Coleoptera: Elateridae]. 19 Feb 1991. Australia: Melbourne, Victoria.
- 8546 [CSIRO FI-0807] [Coleoptera: Elateridae]. 19 Feb 1991. Australia: Melbourne, Victoria.
- 8547 [CSIRO FI-0808] [Coleoptera: Elateridae]. 19 Feb 1991. Australia: Melbourne, Victoria.
- 8548 [CSIRO FI-0809] [Coleoptera: Elateridae]. 19 Feb 1991. Australia: Melbourne, Victoria.
- 8549 [CSIRO FI-0810] Larva, *Heteronychus arator* [Coleoptera: Scarabaeidae]. 19 Feb 1991. Australia: Busselton, Western Australia.
- 8550 [CSIRO FI-0811] Larva, *Heteronychus arator* [Coleoptera: Scarabaeidae]. 19 Feb 1991. Australia: Busselton, Western Australia.
- 8551 [CSIRO FI-0812] Larva, *Heteronychus arator* [Coleoptera: Scarabaeidae]. 19 Feb 1991. Australia: Busselton, Western Australia.
- 8552 [CSIRO FI-0814] Larva, *Heteronychus arator* [Coleoptera: Scarabaeidae]. 19 Feb 1991. Australia: Busselton, Western Australia.
- 8553 [CSIRO FI-0815] Larva, *Heteronychus arator* [Coleoptera: Scarabaeidae]. 19 Feb 1991. Australia: Busselton, Western Australia.
- 8554 [CSIRO FI-0816] Larva, *Heteronychus arator* [Coleoptera: Scarabaeidae]. 19 Feb 1991. Australia: Busselton, Western Australia.
- 8555 [CSIRO FI-0817] Larva, *Heteronychus arator* [Coleoptera: Scarabaeidae]. 19 Feb 1991. Australia: Busselton, Western Australia.
- 8556 [CSIRO FI-0818] Larva, *Heteronychus arator* [Coleoptera: Scarabaeidae]. 19 Feb 1991. Australia: Busselton, Western Australia.
- 8557 [CSIRO FI-0819] Larva, *Heteronychus arator* [Coleoptera: Scarabaeidae]. 19 Feb 1991. Australia: Busselton, Western Australia.
- 8558 [CSIRO FI-820] *Heteronyx piceus* [Coleoptera: Scarabaeidae]. 18 Feb 1991. Australia: Kingaroy, Queensland.
- 8559 [CSIRO FI-0821] *Heteronyx piceus* [Coleoptera: Scarabaeidae]. 18 Feb 1991. Australia: Kingaroy, Queensland.
- 8560 [CSIRO FI-0860] *Galleria mellonella* [Lepidoptera: Pyralidae]. 11 Jun 1991. Australia: Chapman, Australian Capital Territory.
- 8561 [CSIRO FI-0861] Isolated from soil sample. 1 Jul 1991. Australia: Chapman, Australian Capital Territory.
- 8562 [CSIRO FI-0862] Isolated from soil sample. 1 Jul 1991. Australia: Chapman, Australian Capital Territory.
- 8563 [CSIRO FI-0870] *Heteronyx rugosipennis* [Coleoptera: Scarabaeidae]. 1 Jul 1991. Australia: Clermont, Queensland.
- 8564 [CSIRO FI-0871] *Heteronyx rugosipennis* [Coleoptera: Scarabaeidae]. 8 Jan 1992. Australia: Clermont, Queensland.
- 8565 [CSIRO FI-0873] *Heteronyx rugosipennis* [Coleoptera: Scarabaeidae]. 26 Aug 1991. Australia: Clermont, Queensland.
- 8566 [CSIRO FI-0875] *Heteronyx rugosipennis* [Coleoptera: Scarabaeidae]. 26 Aug 1991. Australia: Clermont, Queensland.
- 8567 [CSIRO FI-0877] *Heteronyx rugosipennis* [Coleoptera: Scarabaeidae]. 26 Aug 1991. Australia: Clermont, Queensland.
- 8568 [CSIRO FI-0881] *Desiantha diversipes* [Coleoptera: Curculionidae] from root of *Echium* sp. (Boraginaceae). 8 Jan 1992.
- 8569 [CSIRO FI-0882] *Desiantha diversipes* [Coleoptera: Curculionidae]. 8 Jan 1992.
- 8570 [CSIRO FI-0886] *Nasutitermes exitiosus* [Isoptera: Termitidae] from inner mound material. 4 Mar 1992. Australia: West End Highway, Kangaroo Island, South Australia.
- 8571 [CSIRO FI-0887] Isolated from soil sample near mound of *Nasutitermes exitiosus*, Termitidae. 4 Mar 1992. Australia: West End Highway, Kangaroo Island, South Australia.

- 8572 [CSIRO FI-0888] Isolated from soil sample near mound of *Nasutitermes exitiosus*, Termitidae. 4 Mar 1992. Australia: West End Highway, Kangaroo Island, South Australia.
- 8573 [CSIRO FI-0889] Isolated from soil sample near mound of *Nasutitermes exitiosus*, Termitidae. 4 Mar 1992. Australia: Pub Corner, Kangaroo Island, South Australia.
- 8574 [CSIRO FI-0890] Isolated from soil sample near mound of *Nasutitermes exitiosus*, Termitidae. 4 Mar 1992. Australia: Stokes Bay, Kangaroo Island, South Australia.
- 8575 [CSIRO FI-0742] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound F (F14). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 8576 [CSIRO FI-0894] *Heteronychus arator* [Coleoptera: Scarabaeidae]. 11 Apr 1992. Australia: Perth, Western Australia.
- 8577 [CSIRO FI-0872] *Heteronyx rugosipennis* [Coleoptera: Scarabaeidae]. 26 Aug 1991. Australia: Clermont, Queensland.
- 8580 [CSIRO FI-0900] 29 Apr 1992.
- 8581 [CSIRO FI-0902] Adult, *Mastotermes darwiniensis* [Isoptera: Mastotermitidae]. 29 Apr 1992. Australia: Northern Territory.
- 8582 [CSIRO FI-0903] Larva, *Heteronyx piceus* [Coleoptera: Scarabaeidae]. 27 Apr 1992. Australia: Kingaroy, Queensland.
- 8583 [CSIRO FI-0904] Larva, *Heteronyx piceus* [Coleoptera: Scarabaeidae]. 27 Apr 1992. Australia: Kingaroy, Queensland.
- 8584 [CSIRO FI-0905] Adult, *Mastotermes darwiniensis* [Isoptera: Mastotermitidae]. 29 Apr 1992. Australia: Northern Territory.
- 8585 [CSIRO FI-0906] Adult, *Mastotermes darwiniensis* [Isoptera: Mastotermitidae]. 29 Apr 1992. Australia: Northern Territory.
- 8586 [CSIRO FI-0910] *Heteronyx* sp. [Coleoptera: Scarabaeidae]. 23 Jun 1992. Australia: Queensland.
- 8587 [CSIRO FI-0914] *Mastotermes darwiniensis* [Isoptera: Mastotermitidae]. 1 Jul 1992. Australia: Gunn Point, Northern Territory.
- 8588 [CSIRO FI-0915] Adult, *Mastotermes darwiniensis* [Isoptera: Mastotermitidae]. 1 Jul 1992. Australia: Gunn Point, Northern Territory.
- 8589 [CSIRO FI-0916] Adult, *Mastotermes darwiniensis* [Isoptera: Mastotermitidae]. 1 Jul 1992. Australia: Gunn Point, Northern Territory.
- 8590 [CSIRO FI-0918] *Microcerotermes* sp. [Isoptera: Termitidae]. 1 Jul 1992. Australia: Howard Springs, Northern Territory.
- 8591 [CSIRO FI-0919] *Microcerotermes* sp. [Isoptera: Termitidae]. 1 Jul 1992. Australia: Howard Springs, Northern Territory.
- 8592 [CSIRO FI-0920] *Heteronyx piceus* [Coleoptera: Scarabaeidae]. 1 Jul 1992. Australia: Queensland.
- 8593 [CSIRO FI-0924] 17 Jul 1992. Papua New Guinea.
- 8594 [CSIRO FI-0926] From Dodine 2, 20 Jul 1992. 5 Aug 1992. Sunnycliff Orchard.
- 8595 [CSIRO FI-0928] From Dodine 1, 20 Jul 1992. 5 Aug 1992. Sunnycliff Orchard.
- 8596 [CSIRO FI-0929] From Dodine 1, 20 Jul 1992. 5 Aug 1992. Sunnycliff Orchard.
- 8597 [CSIRO FI-0930] From 1/2 Veen's, 20 Jul 1992. 5 Aug 1992. Sunnycliff Orchard.
- 8603 [CSIRO FI-0895] Rec'd 18 May 2007. Mixed culture of light and dark spored forms.
- 8604 [CSIRO FI-0895] Rec'd 18 May 2007. Dark spored form of ARSEF 8603.
- 8605 [CSIRO FI-0895] Rec'd 18 May 2007. Light spored form of ARSEF 8603.
- 8608 [CSIRO FI-0896] Adult, [Orthoptera: Acrididae]. 20 Mar 1992. Australia: Honeysuckle Creek, Tharwa, Australian Capital Territory.
- 8609 [CSIRO FI-0897] Adult, [Orthoptera: Acrididae]. 20 Mar 1992. Australia: Honeysuckle Creek, Tharwa, Australian Capital Territory.
- 8610 [CSIRO FI-0868] *Heteronyx rugosipennis* [Coleoptera: Scarabaeidae]. 8 Jan 1992. Australia: Clermont, Queensland.
- 8611 [CSIRO FI-0885] Isolated from soil sample near mound of *Nasutitermes exitiosus*, Termitidae. 4 Mar 1992. Australia: Emu Bay, Kangaroo Island, South Australia.
- 8612 [CSIRO FI-0923] 12 Jul 1992. Papua New Guinea. Mixed culture of light and dark spored forms.
- 8613 [CSIRO FI-0923] 12 Jul 1992. Papua New Guinea. Dark spored form of ARSEF 8612.
- 8614 [CSIRO FI-0923] 12 Jul 1992. Papua New Guinea. Light spored form of ARSEF 8612.
- 8615 [CSIRO FI-0947] Larva, *Heteronyx piceus* [Coleoptera: Scarabaeidae]. 22 Jul 1992. Australia: Laboratory infection S465, 610, Queensland.
- 8616 [CSIRO FI-0948] Larva, *Heteronyx piceus* [Coleoptera: Scarabaeidae]. 22 Jul 1992. Australia: Laboratory infection S465, 610, Queensland.
- 8617 [CSIRO FI-0950] Larva, *Heteronyx piceus* [Coleoptera: Scarabaeidae]. 22 Jul 1992. Australia: Laboratory infection S465, 610, Queensland.
- 8618 [CSIRO FI-0951] Larva, *Heteronyx piceus* [Coleoptera: Scarabaeidae]. 22 Jul 1992. Australia: Laboratory infection S465, FI-0686, Queensland.
- 8619 [CSIRO FI-0952] Larva, *Heteronyx piceus* [Coleoptera: Scarabaeidae]. 22 Jul 1992. Australia: Laboratory infection S465, FI-0686, Queensland.
- 8620 [CSIRO FI-0953] Larva, *Heteronyx piceus* [Coleoptera: Scarabaeidae]. 22 Jul 1992. Australia: Queensland.

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- 8621 [CSIRO FI-0954] *Heteronyx piceus* [Coleoptera: Scarabaeidae]. 22 Jul 1992. Australia: Queensland.
- 8622 [CSIRO FI-0956] 22 Jul 1992. Australia: Queensland.
- 8623 [CSIRO FI-0957] 22 Jul 1992.
- 8624 [CSIRO FI-0958] 22 Jul 1992.
- 8625 22 Jul 1992.
- 8626 Acc'd 22 Oct 2007.
- 8627 Acc'd 23 Oct 2007.
- 8628 Acc'd 23 Oct 2007.
- 8629 Acc'd 23 Oct 2007.
- 8630 Acc'd 24 Oct 2007.
- 8631 Acc'd 24 Oct 2007.
- 8632 Acc'd 24 Oct 2007.
- 8653 LA Castrillo (A2 soil 1). Isolated from soil sample. 29 Sep 2007. USA: Ann Arbor, Michigan.
- 8654 LA Castrillo (A2 soil 2). Isolated from soil sample. 29 Sep 2007. USA: Ann Arbor, Michigan.
- 8655 LA Castrillo (B1 soil 1). Isolated from soil sample. 29 Sep 2007. USA: Brighton, Michigan.
- 8656 LA Castrillo (L1 soil 1). Isolated from soil sample. 29 Sep 2007. USA: Lansing, Michigan.
- 8657 LA Castrillo (L5 soil 1). Isolated from soil sample. 29 Sep 2007. USA: Lansing, Michigan.
- 8658 LA Castrillo (R3 soil 1). Isolated from soil sample. 29 Sep 2007. USA: Redford, Michigan.
- 8659 LA Castrillo (R7 soil 1). Isolated from soil sample. 29 Sep 2007. USA: Redford, Michigan.
- 8660 Z Demirbag (KTU-49). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 13 Apr 2007. Turkey: Hemsin, Rize.
- 8662 Z Demirbag (KTU-51). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 4 Jun 2007. Turkey: Gümüşhane.
- 8665 Z Demirbag (KTU-54). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 7 Jul 2007. Turkey: Çalidere, Bayburt.
- 8669 Z Demirbag (KTU-58). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 7 Jul 2007. Turkey: Bayburt.
- 8680 MJ Bidochka (43A 2i). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. Summer 1996. Canada: Bewdley, Ontario.
- 8681 MJ Bidochka (56B 1iv). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. Summer 1996. Canada: Norwood, Ontario.
- 8682 MJ Bidochka (FRB2 1iv). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. Summer 1996. Canada: Frankford, Ontario.
- 8683 MJ Bidochka (GUB2 1iv). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. Summer 1996. Canada: Guelph, Ontario.
- 8684 MJ Bidochka (HKB1 1b). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. Summer 1996. Canada: Havelock, Ontario.
- 8685 MJ Bidochka (MAA1 2ii). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. Summer 1996. Canada: Madoc, Ontario.
- 8686 MJ Bidochka (ORB1 1ii). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. Summer 1996. Canada: Orillia, Ontario.
- 8687 MJ Bidochka (PHA1 2i). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. Summer 1996. Canada: Parkhill, Ontario.
- 8688 MJ Bidochka (ROA1 1b). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. Summer 1996. Canada: Rodney, Ontario.
- 8689 MJ Bidochka (ROA2 2a). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. Summer 1996. Canada: Rodney, Ontario.
- 8690 MJ Bidochka (SCB2 2i). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. Summer 1996. Canada: St. Catharines, Ontario.
- 8691 MJ Bidochka (SHB1 2i). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. Summer 1996. Canada: Sharbot Lake, Ontario.
- 8692 MJ Bidochka (TIB2 1iii). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. Summer 1996. Canada: Tillsonburg, Ontario.
- 8693 ST Jaronski (GE002). 2 Jun 2005. Spain.
- 8696 ST Jaronski (GE049). *Calliptamus italicus* [Orthoptera: Catantopidae]. 22 Feb 2006. Republic of Georgia: Samuxi.
- 8698 ST Jaronski (GE051). *Calliptamus italicus* [Orthoptera: Catantopidae]. 7 Mar 2006. Republic of Georgia: Samuxi.
- 8700 ST Jaronski (GE075). 9 Jul 2004. Republic of Georgia.
- 8701 ST Jaronski (GE102). *Calliptamus italicus* [Orthoptera: Catantopidae]. 10 Aug 2004. Republic of Georgia: Sagarejo, Kakheti.
- 8702 ST Jaronski (GE104). *Calliptamus italicus* [Orthoptera: Catantopidae]. 12 Aug 2004. Republic of Georgia: Sagarejo, Kakheti.
- 8703 ST Jaronski (GE10-01). Isolated from soil sample. 2 Dec 2004. Republic of Georgia: Rustavi, Kvemo Kartli.
- 8731 [CSIRO FI-0025] *Neotermes* sp. [Isoptera: Kalotermitidae]. 2 Jan 1981. Australia: Cooktown, Queensland.
- 8733 [CSIRO FI-0153] *Lepidiota frenchi* [Coleoptera: Scarabaeidae]. 28 Jul 1986. Australia: Gordonvale, Queensland.
- 8734 [CSIRO FI-0454] [Coleoptera: Staphylinidae]. 26 Apr 1989. Australia: Parissi pupation study site, Bundaberg, Queensland.
- 8735 [CSIRO FI-0999] *Spodoptera* sp. [Lepidoptera: Noctuidae]. 11 May 1993. Malaysia: Cameron Highlands.
- 8738 [CSIRO FI-1007] *Anomola* sp. [Coleoptera: Scarabaeidae]. 1990. Myanmar: Magwe.

- 8739 [CSIRO FI-1008] *Anomola* sp. [Coleoptera: Scarabaeidae]. 1990. Myanmar: Magwe.
- 8740 [CSIRO FI-1009] *Anomola* sp. [Coleoptera: Scarabaeidae]. 1990. Myanmar: Magwe.
- 8741 [CSIRO FI-1010] *Anomola* sp. [Coleoptera: Scarabaeidae]. 1990. Myanmar: Magwe.
- 8742 [CSIRO FI-1011] *Anomola* sp. [Coleoptera: Scarabaeidae]. 1990. Myanmar: Magwe.
- 8743 [CSIRO FI-1012] *Anomola* sp. [Coleoptera: Scarabaeidae]. 1990. Myanmar: Magwe.
- 8744 [CSIRO FI-1040] *Dermolepida albohirtum* [Coleoptera: Scarabaeidae]. 5 Mar 1994. Australia: Tully, Queensland.
- 8745 [CSIRO FI-1081] *Brontispa longissima* [Coleoptera: Chrysomelidae]. 20 May 1994. Australia: Darwin, Northern Territory.
- 8746 [CSIRO FI-1082] *Brontispa longissima* [Coleoptera: Chrysomelidae]. 20 May 1994. Australia: Darwin, Northern Territory.
- 8747 [CSIRO FI-1083] *Brontispa longissima* [Coleoptera: Chrysomelidae]. 20 May 1994. Australia: Darwin, Northern Territory.
- 8748 [CSIRO FI-1107] *Papuana* sp. [Coleoptera: Scarabaeidae]. 14 Dec 1994. Papua New Guinea.
- 8749 [CSIRO FI-1123] Isolated from soil sample. 26 May 1994. Australia: Macquarie Island, Tasmania.
- 8754 [CSIRO FI-1151] *Dermolepida albohirtum* [Coleoptera: Scarabaeidae]. 17 Aug 1995. Australia: Burdekin, Queensland.
- 8755 [CSIRO FI-1152] *Dermolepida albohirtum* [Coleoptera: Scarabaeidae]. 17 Aug 1995. Australia: Burdekin, Queensland.
- 8759 [CSIRO FI-1156; FRR 4834] Leukemia patient, *Homo sapiens* [Primates: Hominidae]. 1 Mar 1996. Australia: Sydney Hospital, Sydney, New South Wales.
- 8760 [CSIRO FI-1158] *Teleogryllus commodus* [Orthoptera: Gryllidae]. 26 Apr 1996. Australia: Turkeith, Victoria.
- 8761 [CSIRO FI-1160] Larva, *Antitrogus consanguineus* [Coleoptera: Scarabaeidae]. May 1996. Australia: Bundaberg, Queensland.
- 8762 [CSIRO FI-1161] Adult, *Rhabdoscelus obscurus* [Coleoptera: Curculionidae]. May 1996. Australia: Northern Queensland, Queensland.
- 8764 [CSIRO FI-1163] Larva, *Anoplognathus* sp. [Coleoptera: Scarabaeidae]. May 1996. Australia: Cooma, New South Wales.
- 8765 [CSIRO FI-1240] 3rd instar larva, *Rhopaea magnicornis* [Coleoptera: Scarabaeidae]. 1 Sep 1997. Australia: Condong, New South Wales.
- 8766 [CSIRO FI-1241] 3rd instar larva, *Rhopaea magnicornis* [Coleoptera: Scarabaeidae]. 1 Sep 1997. Australia: Condong, New South Wales.
- 8767 [CSIRO FI-1247] *Rhopaea magnicornis* [Coleoptera: Scarabaeidae]. 12 Sep 1997. Australia: Condong, New South Wales.
- 8768 [CSIRO FI-1084] 20 May 1994. Australia: Darwin, Northern Territory.
- 8769 A Torres Barragan (Ral 5). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from vermicompost. Jul 2008. USA: Red Hen Enterprises, Raleigh, North Carolina.
- 8775 [ERL 194] BL Parker (AVRDC 0005B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8776 [ERL 195] BL Parker (AVRDC 0009B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8777 [ERL 203] BL Parker (0207B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8778 [ERL 204] BL Parker (AVRDC 0214B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8779 [ERL 205] BL Parker (AVRDC 0216B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8780 [ERL 206] BL Parker (AVRDC 0224B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8781 [ERL 209] BL Parker (AVRDC 0244B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8782 [ERL 211] BL Parker (AVRDC 0260B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8783 [ERL 215] BL Parker (AVRDC 0293B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8784 [ERL 216] BL Parker (AVRDC 0295B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8785 [ERL 218] BL Parker (AVRDC 0312B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8786 [ERL 220] BL Parker (AVRDC 0331B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8787 [ERL 221] BL Parker (AVRDC 0338B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8788 [ERL 222] BL Parker (AVRDC 0344B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8789 [ERL 223] BL Parker (AVRDC 0346B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

- 8790 [ERL 224] BL Parker (AVRDC 0350B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
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- 8799 [ERL 334] BL Parker (AVRDC 0168B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
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- 8868 [ERL 337] BL Parker (AVRDC 0382B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8869 [ERL 338] BL Parker (AVRDC 0384B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8870 [ERL 340] BL Parker (AVRDC 0388B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8871 [ERL 342] BL Parker (AVRDC 0392B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
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- 8877 [ERL 350] BL Parker (AVRDC 0423B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
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- 8879 [ERL 353] BL Parker (AVRDC 0437B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8880 [ERL 354] BL Parker (AVRDC 0439B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8881 [ERL 355] BL Parker (AVRDC 0440B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8882 [ERL 356] BL Parker (AVRDC 0441B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8883 [ERL 357] BL Parker (AVRDC 0442B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8884 [ERL 358] BL Parker (AVRDC 0449B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8885 [ERL 359] BL Parker (AVRDC 0450B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
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- 8898 [ERL 251] BL Parker (AVRDC 0477B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
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- 8904 [ERL 270] BL Parker (AVRDC 0549B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8905 [ERL 273] BL Parker (AVRDC 0555B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
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- 8911 [ERL 288] BL Parker (AVRDC 0614B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
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- 8915 [ERL 365] BL Parker (AVRDC 0493B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8916 [ERL 366] BL Parker (AVRDC 0520B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8941 [ERL 200] BL Parker (AVRDC 0154B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
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- 8946 [ERL 217] BL Parker (AVRDC 0303B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
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- 9331 [ERL 1631] VS Gouli (Thr-08-M41). Isolated from soil sample. 2008. USA: Vermont.
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Fungal Cultures

Metarhizium anisopliae sensu lato *Metarhizium anisopliae* sensu stricto

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- Metarhizium anisopliae* sensu stricto** (Metschnikoff) Sorokin
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- Clavicipitaceae. These isolates have been confirmed to belong in this narrowly redefined species in an emergent genetically based classification
- 587 JM Lenné (C7). *Mocis* sp. [Lepidoptera: Noctuidae]. Rec'd 13 Apr 1981. Colombia: Carimagua.
- 755 [CNPAF 82-4-5-01; CP 39] RA Daoust ← J da Silva Carneiro. [Hemiptera: Pentatomidae]. 5 Apr 1982. Brazil: UEPAE/Manaus, Manaus, Amazonas.
- 798 DA Rodriguez Sierra. Nymph, *Aeneolamia varia* [Homoptera: Cercopidae]. 1979. Colombia: Villavicencio, Meta.
- 1044 [EPABA E-6(ESMC)] DW Roberts ← J Ventura. *Deois flavopicta* [Homoptera: Cercopidae]. Acc'd 13 Jan 1984. Brazil: Espírito Santo.
- 1045 [ARSEF 1299; EPABA A-24] DW Roberts ← E Matta. [Homoptera: Cercopidae]. Aug 1978. Brazil: Bahia.
- 1080 LA Lacey. *Helicoverpa zea* [Lepidoptera: Noctuidae]. Fall 1983. USA: Gainesville, Florida.
- 1489 [INRA Ma-139] GG Soares ← G Riba. *Ostrinia nubilalis* [Lepidoptera: Pyralidae]. Acc'd 21 Aug 1984. France.
- 1894 [ATCC 60336; EPABA A-4] DW Roberts ← E Matta. *Mahanarva posticata* [Homoptera: Cercopidae]. Acc'd 11 Jun 1985. Brazil: Salvador, Bahia.
- 1900 [EPABA A-19 (BAMC)] DW Roberts ← E Matta. *Deois flavopicta* [Homoptera: Cercopidae]. Rec'd Aug 1978. Brazil: Salvador, Bahia.
- 1912 [EPABA 1141(29v)] DW Roberts. [Homoptera: Cercopidae]. Rec'd Aug 1978. Mexico.
- 2080 DG Holdom ← H Soeharto. *Nilaparvata lugens* [Homoptera: Delphacidae]. 1985. Indonesia: Sukamundi, Jawa Barat, Java.
- 2153 MC Rombach (200386-2). *Nephrotettix virescens* [Homoptera: Cicadellidae]. 20 Mar 1986. Indonesia: Maros Research Institute, Maros, Sulawesi Selatan, Celebes.
- 2223 KJ Marschall. *Brontispa longissima* [Coleoptera: Chrysomelidae] from artificial production. Jun 1986. Western Samoa: Vaoala, Apia.
- 2421 DG Holdom (050187-5). *Nilaparvata lugens* [Homoptera: Delphacidae]. 5 Jan 1987. Indonesia: CIBA-GEIGY R & D Station, Cikampek, Jawa Barat, Java.
- 2517 [CP 226] F Moscardi. *Deois flavopicta* [Homoptera: Cercopidae]. Acc'd 8 Dec 1987. Brazil: Joquapita.
- 2518 [CP 224] *Conoderus* sp. [Coleoptera: Elateridae]. Acc'd 8 Dec 1987. New Zealand.
- 2627 [CNPAF Pl-43; CP 242] DW Roberts ← Planalsucar. *Mahanarva posticata* [Homoptera: Cercopidae]. 23 May 1988. Brazil: Usina Pedrosa, Pernambuco.
- 2786 RA Humber ← II Kirijak. [Orthoptera: Gryllotalpidae]. Jul 1989. Commonwealth of Independent States: Kishinev, Moldova.
- 3187 GW Riethmacher (B43a). Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap. 3 May 1990. Philippines: La Trinidad, Benguet.
- 3621 IMI (299982). *Aeneolamia varia* [Homoptera: Cercopidae]. Rec'd 26 Feb 1992. Trinidad and Tobago.
- 3924 DR Sosa-Gómez (CNPSO-Ma58) ← LJ Oliveira. *Phyllophaga cuyabana* [Coleoptera: Scarabaeidae]. 22 Nov 1990. Brazil: Boa Esperança, Paraná.
- 5471 TJ Poprawski (TJP936). Larva, *Eoreuma loftini* [Lepidoptera: Pyralidae]. Rec'd 9 May 1997. USA: sugarcane field, Weslaco, Texas.
- 6317 [CIAT 001] D Peck. Adult, *Zulia pubescens* [Homoptera: Cercopidae]. 12 Feb 1998. Colombia: Florencia, Caquetá.

- 6318 Adult, male, *Zulia pubescens* [Homoptera: Cercopidae]. 25 Jun 1998. Colombia: Norglandia Farm, Albania, Caquetá.
- 6347 Nymph, *Aeneolamia varia* [Homoptera: Cercopidae]. 11 May 1999. Colombia: CIAT Farm, Palmira, Valle.
- 6546 D Chandler (HRI 36.79). *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Rec'd 13 Jul 2000. United Kingdom.
- 7418 [CSIRO FI-0322] Larva, [Diptera: Stratiomyidae]. 17 Jan 1989. Australia: Sommerfield, Queensland.
- 7419 [CSIRO FI-0323] Larva, [Diptera: Stratiomyidae]. 17 Jan 1989. Australia: Sommerfield, Queensland.
- 7423 [CSIRO FI-0331] Larva, [Diptera: Stratiomyidae]. 2 Jan 1989. Australia: Fairymead, Queensland.
- 7426 [CSIRO FI-0427] Larva, [Diptera: Stratiomyidae]. 14 Apr 1989. Australia: Dorvenison, Innisfail, Queensland.
- 7427 [CSIRO FI-0487] Adult, [Diptera: Stratiomyidae]. 2 Jun 1989. Australia: pupation site, Sommerfield, Queensland.
- 7428 [CSIRO FI-0488] Adult, [Diptera: Stratiomyidae]. 2 Jun 1989. Australia: pupation site, Sommerfield, Queensland.
- 7430 [CSIRO FI-0535] *Mastotermes darwiniensis* [Isoptera: Mastotermitidae]. 24 Jul 1989. Australia: Kapalga, Northern Territory.
- 7432 [CSIRO FI-0610] Mound material from nest, *Coptotermes lacteus* [Isoptera: Rhinotermitidae]. 26 Mar 1990. Australia: Brown Mountain, New South Wales.
- 7450 [CSIRO FI-0976] Larva, *Heteromyx piceus* [Coleoptera: Scarabaeidae]. 11 Jun 1992. Australia: Queensland.
- 7487 [CSIRO FI-1029] IMI (168777ii). *Schistocerca gregaria* [Orthoptera: Acrididae]. 1 Jun 1994. Ethiopia. Ex-type isolate.
- 7979 [IBCB 348] *Mahanarva fimbriolata* [Homoptera: Cercopidae]. Rec'd 29 Mar 2006. Brazil: São Paulo. Metarriz commercial product from Biocontrol, Brazil. **RESTRICTED ACCESS:** consult Curator.
- 7980 [ARSEF 2627; CNPAF PL-43; IBCB CP 242] *Mahanarva posticata* [Homoptera: Cercopidae]. Rec'd 29 Mar 2006. Brazil: Cortês, Pernambuco. Commercial product from Biotech, Brazil. **RESTRICTED ACCESS:** consult Curator.
- 7981 [CENARGEN CG 858; IBCB 10] *Mahanarva fimbriolata* [Homoptera: Cercopidae]. Rec'd 29 Mar 2006. Brazil: Araçatuba, São Paulo. Commercial product from BioCerto, Brazil. **RESTRICTED ACCESS:** consult Curator.
- Scarabaeidae]. Acc'd 4 Apr 1980. Australia: Adelaide, South Australia.
- 455 [QEC 410.0] RS Soper. *Nilaparvata lugens* [Homoptera: Delphacidae]. 5 May 1980. Philippines: IRRI, Los Baños, Manila.
- 472 [CSIRO FI55; DAR 29768] J Walker ← A Wescott. [Coleoptera: Scarabaeidae]. Sep 1977. Australia: BCRI, R.D. 66, Rydalmer, New South Wales.
- 817 GG Soares (17). 6th instar larva, *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. 5 Mar 1982. France: Plougastel-Daoulas, Finistere.
- 820 GG Soares (A7) ← M Marchal. 6th instar larva, *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Jan 1982. France: Angers, Maine-et-Loire.
- 988 J Aoki (Met. 1). *Bombyx mori* [Lepidoptera: Bombycidae]. Rec'd 7 Nov 1983. Japan: Fuchu, Tokyo Prefecture.
- 1066 [ARSEF ?397] TJ Poprawski ← S Keller (92). Adult, *Melolontha melolontha* [Coleoptera: Scarabaeidae]. 29 May 1981. Switzerland: Iselisberg.
- 1095 DW Roberts ← S Keller (Ma 43). *Carpocapsa pomonella* [Lepidoptera: Olethreutidae]. Acc'd 16 Feb 1984. Austria. Strong destruxin producer.
- 1112 KV Deseö (32B) ← Becchi. Pupa, *Lobesia botrana* [Lepidoptera: Tortricidae]. Apr 1982. Italy: Modena, Emilia-Romagna.
- 1116 KV Deseö (40B) ← Celli. Pupa, *Leucoptera scitella* [Lepidoptera: Lyonetiidae]. Aug 1982. Italy: Ravenna, Emilia-Romagna.
- 1187 [INRA Ma-23] TJ Poprawski ← GCN Latch. *Oxycanus* sp. [Lepidoptera: Hepialidae]. 20 Jan 1966. New Zealand: Palmerston North, North Island.
- 1278 IMI (170289) ← GL Barron. Soil. 1973. Canada.
- 2042 [IMI 113863] MC Rombach ← GL Barron (10277). Peat soil in cedar bog. 1960. Canada: Guelph, Ontario.
- 2107 [CBS 316.51; IMI 014746; NRRL 1944; QM 191] MC Rombach ← KB Raper and LP Rockwood. Larva, *Agriotes* sp. [Coleoptera: Elateridae]. 29 Jun 1933. USA: Forest Grove, Oregon. Ex-type isolate.
- 2210 [ARSEF 2225] MC Rombach (140486-1) ← H Beddu Rewa. [Coleoptera: Curculionidae] on palm tree. 22 Mar 1986. Indonesia: Baritiwurung (Butterfly Valley), nr. Ujungpandang, Sulawesi Selatan, Celebes.
- 2224 MC Rombach (140486). [Coleoptera: Curculionidae]. 14 Apr 1986. Indonesia.
- 2742 GW Riethmacher (B4T8). Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap. 6 Feb 1989. Philippines: Atok, Benguet.
- 2764 SR Sánchez Peña (1). Dermaptera isolate passed through *Pogonomyrmex* sp. [Hymenoptera: Formicidae]. 22 Apr 1987. Mexico: Tecomán, Colima.
- 2974 C López Lastra. Adult, *Aedes crinifer* [Diptera: Culicidae]. 30 Nov 1988. Argentina: Los Talas, Berisso, Buenos Aires.
- 346 [CSIRO FI24] *Aphodius tasmaniae* [Coleoptera:

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- 3045 WE Jones (FST). *Coptotermes formosanus* [Isoptera: Rhinotermitidae]. May 1990. USA: Oahu, Hawaii.
- 3294 J Gutierrez Samperio (10) ← ERD Reyes. *Spodoptera frugiperda* [Lepidoptera: Noctuidae] on corn. 1989. Mexico: Colima.
- 3295 J Gutierrez Samperio (11) ← ERD Reyes. *Anticarsia gemmatalis* [Lepidoptera: Noctuidae] on soybeans. 1987. Mexico: Tamaulipas.
- 3297 J Gutierrez Samperio (13) ← ERD Reyes. *Boophilus* sp. [Acar: Ixodidae] on cow. 1987. Mexico: Colima.
- 3738 SR Sánchez Peña. Alate, *Solenopsis invicta* [Hymenoptera: Formicidae]. Rec'd 6 Jul 1992. USA: Texas A&M University campus, College Station, Texas.
- 3826 CF Andrade (IF#2). Larva, *Ochlerotatus triseriatus* [Diptera: Culicidae]. 11 May 1992. USA: Stair Park, Vestal, NY.
- 3864 LA Lacey (92141). *Popillia japonica* [Coleoptera: Scarabaeidae]. 22 Oct 1992. Portugal: Terceira Island, Azores.
- 4020 T Steenberg (211) ← HP Ravn. *Sitona lineatus* [Coleoptera: Curculionidae]. Jul 1990. Denmark: Silkeborg, Århus.
- 4131 [DAT 10] AC Rath (F010). *Aphodius tasmaniae* [Coleoptera: Scarabaeidae]. 1983. Australia: Waitpinga, South Australia.
- 4152 [DAT 147] AC Rath (F147) ← H Yip (HY214). Soil. 26 Oct 1988. Australia: Buckland, Tasmania.
- 4158 [DAT 166] AC Rath (F166) ← H Yip (HY195). Soil. 13 Oct 1988. Australia: Huonville, Tasmania.
- 4164 [DAT 192] AC Rath (F192) ← H Yip (HY169). Soil. 26 Sep 1988. Australia: Springmere, Beaconsfield, Tasmania.
- 4179 [DAT 208] AC Rath (F208) ← H Yip (HY153). Soil. 23 Aug 1988. Australia: Montumana, Tasmania.
- 4228 [CRI 35-79; DAT 120] AC Rath (F120) ← AT Gillespie. Larva, *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. 28 Jan 1988. Australia: Crops Research Inst..
- 4251 [DAT 213] AC Rath (F213) ← H Yip (HY148). Soil. 23 Aug 1988. Australia: Montumana, Tasmania.
- 4615 [DAT 369] AC Rath (F369) ← H Yip (HY229). Soil. 27 Oct 1988. Australia: Bruny Island, Tasmania.
- 5198 RA LeBrun (Bio 1020). *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Rec'd 20 May 1996. Germany.
- 5625 I Vänninen (SF85-56). Larva, *Tribolium castaneum* [Coleoptera: Tenebrionidae] as bait from soil. 10 Aug 1985. Finland: Toholampi, Vaasan Lääni.
- 5626 I Vänninen (SF86-38). Larva, *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. Aug 1986. Finland: Pälkäne, Hämeen Lääni.
- 5751 MCHCA Bernal (MaPL40). *Schistocerca piceifrons* [Orthoptera: Acrididae]. 1996. Mexico: Isla Socorro, Colima.

Metarhizium brunneum *Metarhizium flavoviride* var. *flavoviride*

- 6120 C López Lastra. Larva, *Diloboderus abderus* [Coleoptera: Scarabaeidae] from soil. Nov 1996. Argentina: Lincoln, Buenos Aires.
- 6392 TL Dubois (VD 5 rep b) ← V D'Amico. Adult, *Anoplophora glabripennis* [Coleoptera: Cerambycidae]. Rec'd 22 Dec 1999. USA: Laboratory colony, USDA Forest Service, Ansonia, Connecticut.
- 6474 I Klingen (SKA.99). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. Sep 1999. Norway: Skavangset.
- 6477 I Klingen (HAG.99). Larva, *Phyllopertha horticola* [Coleoptera: Scarabaeidae] in lawn. 18 Sep 1999. Norway: Moss, Østfold.
- 7433 [CSIRO FI-0692] 8 Sep 1990. Burma.
- 7434 [CSIRO FI-0694] Aug 1990. Burma.
- 8671 Z Demirbag (KTU-60). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 7 Jul 2007. Turkey: Gümüşhane. Identification confirmed by gene sequences.
- 9608 T Myles (G55ai). Rec'd 16 Mar 2010. Canada: Guelph, Ontario.

Metarhizium flavoviride W Gams & Rozsypal [Sordariomycetes: Hypocreales] Clavicipitaceae

- 2024 [ARSEF 1184; INRA Mf-88] CBS (700.74) ← P Ferron. *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Acc'd 23 Oct 1985. France: Brittany, Morbihan.
- 2026 CBS (473.73) ← W Gams and J Rozsypal ← JW Veenbaas-Rijks. Field soil. 1973. Netherlands. CULTURE EX TYPE.
- 4221 [DAT 247] AC Rath (F247) ← H Yip (HY114). Soil. 8 Jul 1988. Australia: Latrobe, Tasmania.
- 4272 [DAT 210] AC Rath (F210) ← H Yip (HY151). Soil. 23 Aug 1988. Australia: Smithton, Tasmania.
- 4304 [DAT 393] AC Rath (F393) ← H Yip (HY253). Soil. Rec'd 6 Jun 1994. Australia: Smithton, Tasmania.
- 6416 EA Ouna (Sudan P1 (b)). Rec'd 22 Dec 1999.
- 8737 [CSIRO FI-1002] *Lachnostenra bidentata* [Coleoptera: Scarabaeidae]. 11 May 1993. Malaysia: Tapah.
- 8758 [CSIRO FI-1155] *Chortoicetes terminifera* [Orthoptera: Acrididae]. 12 Jan 1996. Australia: Ravensworth, Hunter Valley, New South Wales.

Metarhizium flavoviride var. *flavoviride* [Sordariomycetes: Hypocreales] Clavicipitaceae

- 1184 [ARSEF 2024; CBS 700.74; INRA Mf-88] TJ Poprawski ← P Ferron. *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Jan 1974. France: Brittany, Morbihan.
- 2025 CBS (125.65) ← W Gams and J Rozsypal. *Brassica oleracea* (agricultural soil). 1963. Germany: Kiel-Kitzeberg.

- 4719 [DAT 130] AC Rath (F130). Adult, *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. 1 Sep 1988. Australia: Campbelltown, Tasmania.
- 4720 [DAT 133] AC Rath (F133). Adult, *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. 1 Sep 1988. Australia: Mt. Morriston, Ross, Tasmania.
- 4727 [DAT 193] AC Rath (F193) ← H Yip (HY168). Soil. 26 Sep 1988. Australia: Springmere, Beaconsfield, Tasmania.
- 4729 [DAT 238] AC Rath (F238) ← H Yip (HY123). Soil. 7 Aug 1988. Australia: Tasmania.
- 4730 [DAT 256] AC Rath (F256) ← H Yip (HY104). Soil. 8 Jun 1988. Australia: Sorell, Tasmania.

Metarhizium flavoviride var. *minus* Rombach,
 Humber & Roberts
 [Sordariomycetes: Hypocreales]
 Clavicipitaceae

- 1099 DW Roberts (A8). *Nilaparvata lugens* [Homoptera: Delphacidae]. 13 Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.
- 1271 DW Roberts (S). *Nilaparvata lugens* [Homoptera: Delphacidae]. Aug 1983. Philippines: Sipit Area, IRRI, Los Baños, Manila.
- 1272 DW Roberts (Bq). Biotype 2, *Nilaparvata lugens* [Homoptera: Delphacidae]. 13 Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.
- 1273 DW Roberts (T2). *Nilaparvata lugens* [Homoptera: Delphacidae]. Sep 1983. Philippines: Sipit Area, IRRI, Los Baños, Manila.
- 1274 DW Roberts (BPH-5). Biotype 3, *Nilaparvata lugens* [Homoptera: Delphacidae]. Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.
- 1275 DW Roberts (BPH-8). Biotype 3, *Nilaparvata lugens* [Homoptera: Delphacidae]. Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.
- 1276 DW Roberts (IV). Biotype 1, *Nilaparvata lugens* [Homoptera: Delphacidae]. 13 Sep 1983. Philippines: Plant Breeding, IRRI, Los Baños, Manila.
- 1277 DW Roberts (I). Biotype 1, *Nilaparvata lugens* [Homoptera: Delphacidae]. Sep 1983. Philippines: Plant Breeding, IRRI, Los Baños, Manila.
- 1279 DW Roberts (IX). *Nilaparvata lugens* [Homoptera: Delphacidae]. Sep 1983. Philippines: Plant Physiology Plot, IRRI, Los Baños, Manila.
- 1283 DW Roberts (VII). *Nilaparvata lugens* [Homoptera: Delphacidae]. Sep 1983. Philippines: Plant Physiology Field, IRRI, Los Baños, Manila.
- 1287 DW Roberts (BPH-10). Biotype 3, *Nilaparvata lugens* [Homoptera: Delphacidae]. Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.
- 1288 DW Roberts ((i)I). *Nilaparvata lugens* [Homoptera: Delphacidae]. Sep 1983. Philippines: Sipit Area, IRRI, Los Baños, Manila.

- 1289 DW Roberts (BPH-7). Biotype 3, *Nilaparvata lugens* [Homoptera: Delphacidae]. Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.
- 1291 DW Roberts (A1). Biotype 1, *Nilaparvata lugens* [Homoptera: Delphacidae]. Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.
- 1292 DW Roberts (C). *Nilaparvata lugens* [Homoptera: Delphacidae]. Sep 1983. Philippines: Sipit Area, IRRI, Los Baños, Manila.
- 1293 DW Roberts (H). *Nilaparvata lugens* [Homoptera: Delphacidae]. Sep 1983. Philippines: Sipit Area, IRRI, Los Baños, Manila.
- 1294 [ARSEF ?1295] DW Roberts (BPH-3[?]). *Nilaparvata lugens* [Homoptera: Delphacidae]. Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.
- 1295 [ARSEF ?1294] DW Roberts (BPH-3[?]). *Nilaparvata lugens* [Homoptera: Delphacidae]. Sep 1983. Philippines: Sipit Area, IRRI, Los Baños, Manila.
- 1296 DW Roberts (BPH-6). *Nilaparvata lugens* [Homoptera: Delphacidae]. Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.
- 1297 DW Roberts (A9). Biotype 1, *Nilaparvata lugens* [Homoptera: Delphacidae]. Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.
- 1301 DW Roberts (VI). *Nilaparvata lugens* [Homoptera: Delphacidae]. Sep 1983. Philippines: Plant Physiology Plot, IRRI, Los Baños, Manila.
- 1302 DW Roberts (5A). Biotype 1, *Nilaparvata lugens* [Homoptera: Delphacidae]. Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.
- 1303 DW Roberts (A10). Biotype 1, *Nilaparvata lugens* [Homoptera: Delphacidae]. 13 Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.
- 1305 DW Roberts (R). *Nilaparvata lugens* [Homoptera: Delphacidae]. Sep 1983. Philippines: Sipit Area, IRRI, Los Baños, Manila.
- 1546 MC Rombach (Lib.11) ← RM Aguda. *Recilia dorsalis* [Homoptera: Cicadellidae] on rice. 1983. Philippines: Bicol region.
- 1547 MC Rombach (Lib.16) ← RM Aguda. *Recilia dorsalis* [Homoptera: Cicadellidae] on rice. 1983. Philippines: Bicol region.
- 1763 [ATCC 200913] MC Rombach ← T Ho (Sol-31). *Nilaparvata lugens* [Homoptera: Delphacidae]. Nov 1984. Solomon Islands: SolRice, Honiara, Guadalcanal.
- 1764 MC Rombach ← T Ho (Sol-3). *Nilaparvata lugens* [Homoptera: Delphacidae]. Nov 1984. Solomon Islands: SolRice, Honiara, Guadalcanal.
- 1765 MC Rombach ← T Ho (Sol-28). *Nilaparvata lugens* [Homoptera: Delphacidae]. Nov 1984. Solomon Islands: SolRice, Honiara, Guadalcanal.
- 1766 MC Rombach ← T Ho (Sol-5). *Nilaparvata lugens* [Homoptera: Delphacidae]. Nov 1984. Solomon Islands: SolRice, Honiara, Guadalcanal.

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Metarhizium flavoviride var. *minus* *Metarhizium frigidum*

- 1767 MC Rombach ← T Ho (Sol-17). *Nilaparvata lugens* [Homoptera: Delphacidae]. Nov 1984. Solomon Islands: SolRice, Honiara, Guadalcanal.
- 1768 MC Rombach ← T Ho (Sol-7). *Nilaparvata lugens* [Homoptera: Delphacidae]. Nov 1984. Solomon Islands: SolRice, Honiara, Guadalcanal.
- 1769 MC Rombach ← T Ho (Sol-14). *Nilaparvata lugens* [Homoptera: Delphacidae]. Nov 1984. Solomon Islands: SolRice, Honiara, Guadalcanal.
- 1770 MC Rombach ← T Ho (Sol-30). *Nilaparvata lugens* [Homoptera: Delphacidae]. Nov 1984. Solomon Islands: SolRice, Honiara, Guadalcanal.
- 1771 MC Rombach ← T Ho (Sol-4). *Nilaparvata lugens* [Homoptera: Delphacidae]. Nov 1984. Solomon Islands: SolRice, Honiara, Guadalcanal.
- 1772 MC Rombach ← T Ho (Sol-11). *Nilaparvata lugens* [Homoptera: Delphacidae]. Nov 1984. Solomon Islands: SolRice, Honiara, Guadalcanal.
- 1773 MC Rombach ← T Ho (Sol-1). *Nilaparvata lugens* [Homoptera: Delphacidae]. Nov 1984. Solomon Islands: SolRice, Honiara, Guadalcanal.
- 1945 MC Rombach (MALBIRRI). *Nephrotettix virescens* [Homoptera: Cicadellidae]. Acc'd 11 Sep 1985. Philippines: IRRI, Los Baños, Manila.
- 2023 CBS (544.81) ← HC Evans. [Orthoptera: Acrididae]. 1981. Ecuador: Santa Fe Island, Galapagos Islands.
- 2037 MC Rombach (051185-4). *Nilaparvata lugens* [Homoptera: Delphacidae]. 5 Nov 1985. Philippines: IRRI, Los Baños, Manila. CULTURE EX TYPE.
- 2339 MC Rombach (120186-2). [Homoptera: Cicadellidae] on rice. 12 Jan 1986. Philippines: Palawan.
- 6593 [IITA 189] A Cherry. Abandoned termite mound. Rec'd 18 Sep 2000. Benin: N'Dali, Borgou.
- 6594 [IITA 190] A Cherry. Abandoned *Macrotermes* termite mound. Rec'd 18 Sep 2000. Benin: Sassaduro, Alibori, Borgou.
- 6595 [IITA 191] A Cherry. Abandoned termite mound. Rec'd 18 Sep 2000. Benin: Kpebie, Perere, Borgou.
- 6596 [IITA 192] A Cherry. From bark mixed with sand. Rec'd 18 Sep 2000. Benin: Koda, Tchaourou, Borgou.
- 6599 [IITA 195] A Cherry. From plant fragments. Rec'd 18 Sep 2000. Benin: Djidja, Zou.
- 6601 [IITA 197] A Cherry. From soil. Rec'd 18 Sep 2000. Benin: Kpassagon, Zou.

Metarhizium flavoviride var. *novazealandicum*

Driver, Milner & Trueman
[Sordariomycetes: Hypocreales]
Clavicipitaceae

- 8214 [CSIRO FI-0702] Larva, [Lepidoptera: Crambidae]. 8 Oct 1990. New Zealand: Christchurch, South Island.
- 8750 [CSIRO FI-1124] Isolated from soil sample. 26 May 1994. Australia: Macquarie Island, Tasmania.

Metarhizium flavoviride var. *pemphigum* Driver, Milner & Trueman [Sordariomycetes: Hypocreales]

Clavicipitaceae

- 6569 D Chandler (HRI 99.82). *Pemphigus trehernei* [Homoptera: Aphididae]. Rec'd 13 Jul 2000. United Kingdom: coastal salt marshes, Norfolk, England.
- 7491 [CSIRO FI-1101] *Pemphigus* sp. [Homoptera: Aphididae]. 12 May 1994. United Kingdom: Norfolk, England.
- 9358 T Myles (Guelph RF-08a). *Reticulitermes flavipes* [Isoptera: Rhinotermitidae]. Summer 2008. Canada: Woolwich Termite Management Area (sector 7), Guelph, Ontario.

Metarhizium flavoviride 'Type E' (see Driver et al., 2000)

[Sordariomycetes: Hypocreales]

Clavicipitaceae. Species remaining here need genomic confirmation before reclassification under the classification of Bischoff et al. (2009).

- 2948 [CP 271] SP Wraight ← LG Leite. [Homoptera: Cicadellidae]. 30 Apr 1989. Brazil: Campinas, São Paulo.

Metarhizium frigidum Bischoff & Rehner in Bischoff, SA Rehner & Humber [Sordariomycetes: Hypocreales]

Clavicipitaceae. See Mycologia 98: 737-745 (2006)

- 4124 [DAT 1] AC Rath (F001) ← Reinganum (124). Larva, *Adoryphorus* sp. [Coleoptera: Scarabaeidae]. 10 Jun 1994. Australia: Ballarat, Victoria. 'Ex type' isolate.
- 4219 [DAT 175] AC Rath (F175) ← H Yip (HY186). Soil. 5 Oct 1988. Australia: Gardners Bay, Tasmania.
- 4277 [DAT 234] AC Rath (F234) ← H Yip (HY127). Soil. 11 Aug 1988. Australia: Interlaken, Interlaken, Tasmania.
- 4294 [DAT 281] AC Rath (F281) ← H Yip (HY79). Soil. Rec'd 6 Jun 1994. Australia: Benham, Avoca.
- 4561 [DAT 385] AC Rath (F385) ← H Yip (HY245). Soil. 1989. Australia: Liawenee, Tasmania.
- 4680 [DAT 176] AC Rath (F176) ← H Yip (HY185). Soil. 5 Oct 1988. Australia: Cygnet, Tasmania.
- 4765 [DAT 412] AC Rath (F412) ← H Yip (HY272). Soil. 3 Nov 1988. Australia: Stonehouse, Tasmania.
- 7436 [CSIRO FI-0733] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] Mound F (F5). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 7437 [CSIRO FI-0737] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] Soil around mound F (F17). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

- 7438 [CSIRO FI-0746] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] Soil around mound F (F11). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 7439 [CSIRO FI-0747] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] Soil around mound F (F 11). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 7440 [CSIRO FI-0748] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] Mound G (G3). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 7441 [CSIRO FI-0758] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] Soil around mound G (G17). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 7442 [CSIRO FI-0761] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] Soil around mound G (G15). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 7443 [CSIRO FI-0764] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] Soil around mound G (G14). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 7444 [CSIRO FI-0776] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] Soil around mound I (I12). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 7445 [CSIRO FI-0777] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] Soil around mound I (I18). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 7446 [CSIRO FI-0783] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] Soil around mound H (H16). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 7447 [CSIRO FI-0785] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] Soil around mound J (J11). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.
- 7448 [CSIRO FI-0793] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] Mound I (I1). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

Metarhizium globosum JF Bischoff, SA Rehner & Humber
[Sordariomycetes: Hypocreales]
Clavicipitaceae. Recognized as part of an emergent genomic reclassification by Bischoff et al. (2009).

- 2596 RC Rajak (ENT/12). *Pyrausta machaeralis* [Lepidoptera: Pyralidae] on teak, *Tectona grandis*. Acc'd 12 Sep 1988. India. Ex-type isolate used to typify this species.

Metarhizium guizhouense

[Sordariomycetes: Hypocreales]

Clavicipitaceae. Segregated from the *M. anisopliae* species complex as part of genomic reclassification of Bischoff et al. (2009). Synonym: *M. taiii* ZQ Liang & AY Liu. Teleomorph: *Cordyceps taiii* ZQ Liang & AY Liu.

- 683 [QEC 433.0] DW Roberts (102381-9). Larva, [Coleoptera: Scarabaeidae] in sugar cane. 23 Oct 1981. PR China: Guanzhou, Kwon Tung.
- 703 RS Soper. *Bombyx mori* [Lepidoptera: Bombycidae]. 11 Nov 1981. PR China: Hangzhou, Zhejiang.
- 819 GG Soares (21) ← JP Aeschlimann. 5th instar larva, *Sitona discoideus* [Coleoptera: Curculionidae]. 29 Mar 1982. France: Montpellier, Hérault.
- 977 [GCRI 134-82] RA Hall ← A Vey. *Melolontha melolontha* [Coleoptera: Scarabaeidae]. Acc'd 17 Oct 1983. France.
- 1092 DW Roberts ← K Kawakami (621). Soil. 22 Aug 1983. Japan.
- 1093 DW Roberts ← K Kawakami (773). Soil. 1982. Japan.
- 2140 T Searle (N). Larva, [Lepidoptera: Noctuidae]. Jul 1985. Canada: Southern Québec.
- 3603 IMI (152222) ← Deshpande. *Myllocerus discolor* [Coleoptera: Curculionidae]. Rec'd 26 Feb 1992. India: Mudigere.
- 3611 [CSIRO FI 1033] IMI (I91-633). *Pseudosphingonotus savignyi* [Orthoptera: Acrididae]. Rec'd 26 Feb 1992. Oman.
- 4153 [DAT 148] AC Rath (F148) ← H Yip (HY213). Soil. 26 Oct 1988. Australia: Bracknell, Tasmania.
- 4303 [DAT 278] AC Rath (F278) ← H Yip (HY82). Soil. Rec'd 6 Jun 1994. Australia: Campbelltown, Tasmania.
- 4321 [DAT 375] AC Rath (F375) ← H Yip (HY235). Soil. Rec'd 6 Jun 1994. Australia: Cleveland, Tasmania.
- 4588 [DAT 47] AC Rath (F047) ← RJ Milner (FI123). Host not specified. 20 Oct 1987. Australia: New South Wales.
- 4604 [DAT 473] AC Rath (F473) ← W Theunis (PNG 1). *Papuana woodlarkiana* [Coleoptera: Scarabaeidae]. 22 Jun 1993. Papua New Guinea: LAE.
- 5714 JM Sung. Rec'd 11 May 1998.
- 6238 [RCEF 0262] Pupa, [Lepidoptera]. 30 Jun 1996. PR China: Anhui.
- 7420 [CSIRO FI-0327] Larva, [Diptera: Stratiomyidae]. 20 Jan 1989. Australia: Walkers Point, Queensland.
- 7502 CSIRO (FI-1417). AMMRL 154.03. 5 Jun 2000. Australia: Royal North Shore Hospital, St. Leonards, New South Wales.
- 7507 [CSIRO FI-1469] Isolated from soil sample 6E-1. 12 May 2003. Republic of Kiribati.

Metarhizium lepidiotae (Driver & Milner) JF Bischoff,
 SA Rehner & Humber
 [Sordariomycetes: Hypocreales]
 Clavicipitaceae. Synonym: *M. anisopliae* var. *lepidiotae* Driver et al. (2000; as var. *lepidiotum*). Placement of isolates here has been confirmed under the genomic reclassification of Bischoff et al. (2009).

- 4154 [DAT 151] AC Rath (F151) ← H Yip (HY210). Soil. 26 Oct 1988. Australia: Deloraine, Tasmania.
 4587 [DAT 476] AC Rath (F476) ← W Theunis (PNG 3B). *Papuana* or cicada.. 22 Jun 1993. Papua New Guinea.
 4628 [DAT 152] AC Rath (F152) ← H Yip (HY209). Soil. 26 Oct 1988. Australia: Campbelltown, Tasmania.
 4660 [DAT 475] AC Rath (F475) ← W Theunis (PNG 2B). *Papuana* or cicada.. 22 Jun 1993. Papua New Guinea: LAE.
 7412 [CSIRO FI-0152] *Lepidiota consobrina* [Coleoptera: Scarabaeidae]. 17 Jun 1986. Australia: Mossman, Queensland.
 7488 [ARSEF 7453; CSIRO FI-1042] *Dermolepida albohirtum* [Coleoptera: Scarabaeidae]. 5 Mar 1994. Australia: Tully, Queensland. Ex-type isolate used by Driver et al. (2000) to describe *Metarhizium anisopliae* var. *lepidiotae*.

Metarhizium majus (JR Johnston) JF Bischoff, SA Rehner & Humber
 [Sordariomycetes: Hypocreales]
 Clavicipitaceae. Synonym: *M. anisopliae* var. *majus* (JR Johnston) MC Tulloch. Placement of isolates here has been confirmed under the genomic classification of Bischoff et al. (2009).

- 473 [DAR 28052; QEC 429.0] J Walker ← G Johnson. Soil under *Eucalyptus* sp. Jan 1973. Australia: Canberra, Australian Capital Territory.
 978 [GCRI 148-82] RA Hall ← A Vey. *Oryctes rhinoceros* [Coleoptera: Scarabaeidae]. Acc'd 17 Oct 1983. France.
 1015 J Aoki (Met. 4) ← T Kushida. *Bombyx mori* [Lepidoptera: Bombycidae]. Rec'd 7 Nov 1983. Japan: Hachioji, Tokyo Prefecture.
 1858 DW Roberts (Pol-42). [Coleoptera: Scarabaeidae]. Acc'd 19 Mar 1985. Poland.
 1859 DW Roberts (Pol-32). [Coleoptera: Scarabaeidae]. Acc'd 19 Mar 1985. Poland.
 1914 MC Rombach. Larva, *Oryctes* sp. [Coleoptera: Scarabaeidae]. Apr 1985. Philippines: nr. Tiaong Experimental Station, Quezon. Ex-epitype isolate for this species.
 1946 MC Rombach (MMQ). *Oryctes rhinoceros* [Coleoptera: Scarabaeidae]. Acc'd 11 Sep 1985. Philippines: Tiaong Experimental Station, Quezon.
 2808 GW Riethmacher (B16m). Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap. 22 May 1989. Philippines: Atimonan, Quezon.

4566 [DAT 514] AC Rath (F514). Larva, *Anoplognathus* sp. [Coleoptera: Scarabaeidae]. 10 Mar 1994. Australia: Leighlands, New England, New South Wales.

4601 [DAT 515] AC Rath (F515). Larva, *Anoplognathus* sp. [Coleoptera: Scarabaeidae]. 10 Mar 1994. Australia: Glen Innes, New South Wales.

7505 [CSIRO FI-1449] *Anoplognathus* sp. [Coleoptera: Scarabaeidae]. 12 Jun 2001. Australia: Northern Queensland, Queensland.

Metarhizium pingshaense QT Chen & HL Guo
 [Sordariomycetes: Hypocreales]

Clavicipitaceae. Genomically confirmed and distinguished from *M. anisopliae* by the reclassification of Bischoff et al. (2009).

- 436 SJ Gagen (2). *Teleogryllus commodus* [Orthoptera: Gryllidae]. Rec'd 11 Mar 1980. Australia: Hexham, Victoria.
 437 SJ Gagen (3). *Teleogryllus commodus* [Orthoptera: Gryllidae]. Rec'd 11 Mar 1980. Australia.
 439 SJ Gagen (5). *Teleogryllus commodus* [Orthoptera: Gryllidae]. Rec'd 11 Mar 1980. Australia: Byaduck, Victoria.
 443 SJ Gagen (9). *Teleogryllus commodus* [Orthoptera: Gryllidae]. Rec'd 11 Mar 1980. Australia: Camperdown, Victoria.
 444 SJ Gagen (10). *Teleogryllus commodus* [Orthoptera: Gryllidae]. Rec'd 11 Mar 1980. Australia: Byaduck, Victoria.
 446 SJ Gagen (12). *Teleogryllus commodus* [Orthoptera: Gryllidae]. Rec'd 11 Mar 1980. Australia: Mortlake, Victoria.
 538 DW Roberts. *Oryctes rhinoceros* [Coleoptera: Scarabaeidae]. 20 Aug 1980. Thailand.
 552 DW Roberts ← MA Naves. *Galactica* sp. [Lepidoptera]. Nov 1980. Brazil: Brasília, Distrito Federal.
 576 [QEC 427.0] RS Soper (8133-1). *Nilaparvata lugens* [Homoptera: Delphacidae]. 3 Mar 1981. Indonesia: insect rearings, Maros Research Center, Maros, Sulawesi Selatan, Celebes.
 588 [QEC 431.0] JM Lenné (E1). Soil. Rec'd 13 Apr 1981. Colombia: Espinal, Tolima.
 712 DW Roberts. 7 May 1981. PR China.
 1009 J Aoki (Met. 5) ← K Kojo. *Ornebius kanetataki* [Orthoptera: Gryllidae]. Jul 1976. Japan: Fuchu, Tokyo Prefecture.
 1011 J Aoki (Met. 8). Soil. Aug 1982. Japan: Fuchu, Tokyo Prefecture.
 1448 [CNPAP 83-12-27; CP 122] E Ferreira. *Scaptiores castanea* [Hemiptera: Cydnidae]. 27 Dec 1983. Brazil: Goiatuba, Goiás.
 1545 MC Rombach (Ma Pal.II). Adult, *Scotinophara coarctata* [Hemiptera: Pentatomidae] on rice. Jun 1984. Philippines: Brooke's Point region, Palawan.

- 1724 DW Roberts (29103) and MC Rombach. *Nilaparvata lugens* [Homoptera: Delphacidae]. 29 Oct 1984. India: greenhouse, Tamil Nadu Ag. Univ., Coimbatore, Tamil Nadu.
- 1725 DW Roberts (291017) and MC Rombach. *Nilaparvata lugens* [Homoptera: Delphacidae]. 29 Oct 1984. India: greenhouse, Paddy Breeding Station, Tamil Nadu Ag. Univ., Coimbatore, Tamil Nadu.
- 1729 DW Roberts (2910B) and MC Rombach. *Nilaparvata lugens* [Homoptera: Delphacidae]. 29 Oct 1984. India: greenhouse, Tamil Nadu Ag. Univ., Coimbatore, Tamil Nadu.
- 2043 MC Rombach (061185-1). *Nephrotettix cincticeps* [Homoptera: Cicadellidae]. 6 Nov 1985. Philippines: IRRI field, Los Baños, Manila.
- 2106 DG Holdom (100286-3). *Nephrotettix virescens* [Homoptera: Cicadellidae]. 10 Feb 1986. Indonesia: CIBA-GEIGY R & D Station, Cikampek, Jawa Barat, Java.
- 2162 BN Muthappa (PNG 12721). Larva, [Coleoptera: Scarabaeidae]. Rec'd 12 May 1986. Papua New Guinea.
- 2231 K Narayanan (7). *Zyogramma bicolorata* [Coleoptera: Chrysomelidae]. Rec'd 27 Aug 1986. India.
- 2735 GW Riethmacher (Ma1). *Spodoptera* sp. [Lepidoptera: Noctuidae]. 29 Dec 1988. Philippines: La Trinidad, Benguet.
- 2809 GW Riethmacher (B17b). Soil, using *Tenebrio molitor* [Coleoptera: Tenebrionidae] as a trap. 5 Jun 1989. Philippines: La Trinidad, Benguet.
- 3044 WE Jones (WSP). Soil from sweet potato crop. Mar 1990. USA: Oahu, Hawaii.
- 3180 GW Riethmacher (B34). Soil, using *Tenebrio molitor* [Coleoptera: Tenebrionidae] as a trap. 1 Mar 1990. Philippines: Louisiana, Laguna.
- 3193 GW Riethmacher (B45b). Soil, using *Tenebrio molitor* [Coleoptera: Tenebrionidae] as a trap. 28 May 1990. Philippines: Villasis, Pangasinan.
- 3210 RC Rajak (49). [Coleoptera]. Rec'd 3 Jun 1991. India.
- 3604 IMI (298059). *Scapanes australis* [Coleoptera: Scarabaeidae]. Rec'd 26 Feb 1992. Papua New Guinea.
- 3610 [CSIRO FI 208] IMI (I91-625). *Pseudosphingonotus savignyi* [Orthoptera: Acrididae]. Rec'd 26 Feb 1992. Oman.
- 4342 [DAT 491] AC Rath (F491) ← W Theunis (SOL IS 15). Larva(L3), [Coleoptera]. Rec'd 6 Jun 1994. Solomon Islands.
- 4366 LA Lacey (94116). Soil Galleria bait. 27 Apr 1994. Japan: Takao Golf Course, Sapporo, Hokkaido.
- 4610 [DAT 480] AC Rath (F480) ← W Theunis (SOL IS 4). Pupa, [Coleoptera]. 22 Jun 1993. Solomon Islands.
- 5197 M Browning ← RA LeBrun ← CW McCoy (Mada). *Diaprepes abbreviata* [Coleoptera: Curculionidae]. Rec'd 20 May 1996. USA: Florida.
- 7410 [CSIRO FI-0114] *Antitrogus parvulus* [Coleoptera: Scarabaeidae]. 30 Oct 1985. Australia: The Hummock, Bundaberg, Queensland.
- 7414 [CSIRO FI-0203] Larva, [Diptera: Stratiomyidae]. 17 Feb 1987. Australia: Hapsberg, Firran, New South Wales.
- 7415 [CSIRO FI-0206] *Phaulacridium vittatum* [Orthoptera: Acrididae]. Spring 1987. Australia: Gininderra Experiment Station, Gininderra, New South Wales.
- 7416 [CSIRO FI-0208] *Phaulacridium vittatum* [Orthoptera: Acrididae]. Spring 1987. Australia: Gininderra Experiment Station, Gininderra, New South Wales.
- 7417 [CSIRO FI-0295] *Antitrogus mussoni* [Coleoptera: Scarabaeidae]. 13 Oct 1988. Australia: Bundaberg, Queensland.
- 7421 [CSIRO FI-0328] Larva, [Diptera: Stratiomyidae]. 2 Jan 1989. Australia: monitoring site, Walkers Point, Queensland.
- 7422 [CSIRO FI-0330] Larva, [Diptera: Stratiomyidae]. 2 Jan 1989. Australia: Fairymead, Queensland.
- 7425 [CSIRO FI-0379] Larva, [Diptera: Stratiomyidae]. 28 Mar 1989. Australia: S. Lines, South Kolan, Queensland.
- 7429 [CSIRO FI-0516] Larva, [Diptera: Stratiomyidae]. 28 Jun 1989. Australia: pupation site, Sommerfield, Queensland.
- 7431 [CSIRO FI-0550] *Coptotermes lacteus* [Isoptera: Rhinotermitidae]. 20 Dec 1989. Laboratory isolation.
- 7435 [CSIRO FI-0700] *Costelytra zealandica* [Coleoptera: Scarabaeidae]. 8 Oct 1990. New Zealand: South Island.
- 7929 [CSIRO FI-0375] *Cryptotermes brevis* [Isoptera: Kalotermitidae]. 10 Mar 1989. BM cultures.
- Metarhizium robertsii** JF Bischoff, SA Rehner & Humber
[Sordariomycetes: Hypocreales]
Clavicipitaceae. Segregated from *M. anisopliae* as part of a genomic reclassification by Bischoff et al. (2009). A complete genomic sequence of ARSEF 8820 (a single-spored reisolate of ARSEF 2575) is being compiled.
- 23 RS Soper (F84-1-1) ← RL Rabb. *Conoderus* sp. [Coleoptera: Elateridae]. 1961. USA: North Carolina.
- 724 [CNPAF 82-2-15-04; CP 25] RA Daoust. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. Feb 1982. Brazil: CNPAF, Goiânia, Goiás.
- 727 [CABI 351805; CNPAF 82-2-2-01; CP 21] RA Daoust ← Y Tanaka. [Orthoptera: Tettigoniidae]. 2 Feb 1982. Brazil: CNPAF, Goiânia, Goiás.
- 797 DA Rodriguez Sierra. Larva, *Ancognatha scarabaeoides* [Coleoptera: Scarabaeidae]. Jun 1981. Colombia: Madrid, Cundinamarca.

- 1046 J Aoki (Met. 6) ← K Yanase. *Popillia japonica* [Coleoptera: Scarabaeidae]. Jul 1977. Japan: Fuchu, Tokyo Prefecture.
- 1057 [CNPS 30A] F Moscardi. Larva, *Chlosyne lacinia saundersii* [Lepidoptera: Nymphalidae]. 1983. Brazil: Londrina, Paraná.
- 1120 KV Deseö (72). Soil, using *Galleria mellonella* [Lepidoptera: Pyralidae] as a trap. Oct 1982. Italy: Modena, Emilia-Romagna.
- 1298 DW Roberts (single spore isolate #9) or (MaT3JB-B). *Popillia japonica* [Coleoptera: Scarabaeidae]. Feb 1978. USA: Clinton Corners, New York.
- 1878 DW Roberts (MaT3JB-A). *Popillia japonica* [Coleoptera: Scarabaeidae]. 1978. USA: Clinton Corners, New York.
- 1897 DW Roberts (V-14 (F84 mutant)). *Conoderus* sp. [Coleoptera: Elateridae]. Acc'd 11 Jun 1985. USA: California.
- 1910 DW Roberts ← S Keller (Ma52(S4)). *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Acc'd 18 Jun 1985. Germany.
- 1952 [CNPAF 85-7-21; CP 177] SM dos Santos. ?*Cirtoneurus* sp. [Hemiptera: Cydnidae]. 27 Jul 1985. Brazil: Goiânia, Goiás.
- 1968 DR Smitley. *Strigoderma arboricola* [Coleoptera: Scarabaeidae]. Aug 1985. USA: East Lansing, Michigan.
- 2134 T Searle (E). *Phyllophaga ?anxia* [Coleoptera: Scarabaeidae]. Jul 1985. Canada: Southern Québec.
- 2469 JK Liebherr. Larva, [Coleoptera: Carabidae]. 24 Aug 1987. Mexico: 10.5 km S of Amecameca, Tepetlixpa, Mexico.
- 2514 [CP 236B] SM dos Santos. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. Oct 1986. Brazil: CNPAF, Goiânia, Goiás.
- 2547 SV Krueger ← FL Consolie and MG Villani. *Rhizotrogus majalis* [Coleoptera: Scarabaeidae]. Oct 1987. USA: Syracuse, New York.
- 2560 [CP 232] SB Alves (SPL-54A). *Atta sexdens rubropilosa* [Hymenoptera: Formicidae]. Acc'd 13 Apr 1988. Brazil: Piracicaba, São Paulo.
- 2561 [CP 233] SB Alves (507). *Solenopsis* sp. [Hymenoptera: Formicidae]. Acc'd Apr 1988. Brazil: Piracicaba, São Paulo.
- 2575 [ATCC MYA-3093; IMI I91-613] RJ St. Leger (ME-1) ← Tate and Lyle Ltd (Batch No. B1830). *Curculio caryae* [Coleoptera: Curculionidae]. Acc'd 21 Jul 1988. USA: South Carolina. Ex-type culture; a complete genomic sequencing is being obtained for a single-spored reisolate (ARSEF 8820) of this isolate.
- 2981 T Searle (CWMA). Larva, *Listronotus oregonensis* [Coleoptera: Curculionidae]. 1988. Canada: Saint-Jean, Québec.
- 2982 T Searle (PAMA). External parasite on *Phyllophaga anxia* [Coleoptera: Scarabaeidae] larva. 1987. Canada: Québec.
- 3043 WE Jones (FLS). Soil from lettuce crop. Mar 1990. USA: Island of Hawaii, Hawaii.
- 3108 SV Krueger (MaEC1). *Rhizotrogus majalis* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.
- 3211 SV Krueger (MaEC2). *Rhizotrogus majalis* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.
- 3388 I Majchrowicz (3a). *Tribolium castaneum* [Coleoptera: Tenebrionidae] on asparagus. 16 Jul 1991. USA: Orchard Farm, Yakima, Washington.
- 3540 M Brownbridge (B-2). Soil, using *Galleria mellonella* [Lepidoptera: Pyralidae] as a trap. 29 Nov 1991. USA: oak stand, Leddy Park, Chittenden County, Vermont.
- 3608 [ARSEF 2575] IMI (I91-613) ← RJ St. Leger (ME-1) ← Tate and Lyle Ltd (Batch No. B1830). *Curculio caryae* [Coleoptera: Curculionidae]. Rec'd 26 Feb 1992. USA.
- 3721 RA LeBrun ← J Hanula. Larva, *Popillia japonica* [Coleoptera: Scarabaeidae]. 3 Jun 1991. USA: Clinton, Connecticut.
- 3925 DR Sosa-Gómez (CNPSO-Ma60). [Homoptera: Cicadidae]. 19 Feb 1992. Argentina: San Miguel de Tucumán, Tucumán.
- 4123 [ARSEF 2547] L Marold (ARSEF2547). *Rhizotrogus majalis* [Coleoptera: Scarabaeidae]. Rec'd 2 May 1994. USA: Syracuse, New York. Replaces ARSEF 2547.
- 4227 [DAT 37] AC Rath (F037). Soil. 1987. Australia: Woodbury, Tasmania.
- 4241 [DAT 46] AC Rath (F046) ← RJ Milner (Fl122). Host not specified. 20 Oct 1987. Australia: New South Wales.
- 4621 [DAT 44] AC Rath (F044) ← RJ Milner (Fl120). Host not specified. 20 Oct 1987. Australia: New South Wales.
- 4739 [DAT 298] AC Rath (F298) ← H Yip (HY61). Soil. 29 Feb 1988. Australia: Rosehill, Jericho, Tasmania.
- 4903 LA Lacey (95005). *Galleria mellonella* [Lepidoptera: Pyralidae] Used as bait. Feb 1995. Portugal: Terceira Island, Azores.
- 4919 LA Lacey (95021). Host not specified. Rec'd 27 Apr 1995. Portugal: Terceira Island, Azores.
- 5149 DL Hostetter (T100) ← IOB Armas. Larva, *Popillia japonica* [Coleoptera: Scarabaeidae] soil, pasture. 23 Jan 1996. Portugal: Terceira Island, Azores.
- 5873 FE Vega (EBCL 97095). Larva, *Plutella xylostella* [Lepidoptera: Plutellidae]. 22 Aug 1997. Romania: Voronetz.
- 6472 SR Grugel. *Dectes texanus* [Coleoptera: Cerambycidae]. 3 Nov 1998. USA: Goodland, Kansas.
- 6476 I Klingen (EFF.99). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 1 Sep 1999. Norway: Effeløt.

- 6755 GUL Braga and DW Roberts (DWR 62). 3 Sep 1999.
USA: Utah State University, Department of Biology,
Logan, Utah. Color mutant (violet) obtained from
ARSEF 2575 following UV-B exposure.
- 6841 GUL Braga and DW Roberts (DWR 59). 19 Sep 2000.
USA: Utah State University, Department of Biology,
Logan, Utah. Color mutant (yellow) obtained from
ARSEF 2575 following UV-B exposure.
- 6842 GUL Braga and DW Roberts (DWR 60). 9 Jun 1999.
USA: Utah State University, Department of Biology,
Logan, Utah. Color mutant (violet) obtained from
ARSEF 2575 following UV-B exposure.
- 6843 GUL Braga and DW Roberts (DWR 61). 24 Sep 1999.
USA: Utah State University, Department of Biology,
Logan, Utah. Color mutant (yellow) obtained from
ARSEF 2575 following UV-B exposure.
- 6844 GUL Braga and DW Roberts (DWR 62). 3 Sep 1999.
USA: Utah State University, Department of Biology,
Logan, Utah. Color mutant (violet) obtained from
ARSEF 2575 following UV-B exposure.
- 6845 GUL Braga and DW Roberts (DWR 63). 6 Sep 1999.
USA: Utah State University, Department of Biology,
Logan, Utah. Color mutant (yellow) obtained from
ARSEF 2575 following UV-B exposure.
- 6846 GUL Braga and DW Roberts (DWR 64). 6 Sep 1999.
USA: Utah State University, Department of Biology,
Logan, Utah. Color mutant (yellow) obtained from
ARSEF 2575 following UV-B exposure.
- 6847 GUL Braga and DW Roberts (DWR 65). 11 Sep 1999.
USA: Utah State University, Department of Biology,
Logan, Utah. Color mutant (light green) obtained
from ARSEF 2575 following UV-B exposure.
- 6848 GUL Braga and DW Roberts (DWR 66). 6 Sep 1999.
USA: Utah State University, Department of Biology,
Logan, Utah. Color mutant (yellow) obtained from
ARSEF 2575 following UV-B exposure.
- 6864 GUL Braga and DW Roberts (DWR 172). 8 Nov
2000. USA: Utah State University, Department of Bi-
ology, Logan, Utah. Color mutant (yellow) obtained
from ARSEF 2575 following UV-B exposure.
- 6865 GUL Braga and DW Roberts (DWR 173). 7 Nov
2000. USA: Utah State University, Department of
Biology, Logan, Utah. Color mutant (violet) obtained
from ARSEF 2575 following UV-B exposure.
- 7413 [CSIRO FI-0163] *Kalotermes* sp. [Isoptera: Kaloter-
mitidae]. 18 Nov 1986. Australia: Sydney University,
Sydney, New South Wales.
- 7424 [CSIRO FI-0358] Larva, *Heteronychus arator* [Co-
leoptera: Scarabaeidae]. 8 Feb 1989. Australia:
Busselton, Western Australia.
- 7449 [CSIRO FI-0911] *Heteronyx* sp. [Coleoptera: Scara-
baeidae]. 23 Jun 1992. Australia: Queensland.
- 7501 CSIRO (FI-1416). AMMRL 154.02. 5 Jun 2000.
Australia: Royal North Shore Hospital, St. Leonards,
New South Wales.
- 8321 AC Churchill (ARSEF 2575 SS1). 11 Dec 2000.
USA: USDA ARS Plant Protection Research Unit,
Ithaca, New York. Single spore reisolate of ARSEF
2575 passed through *Spodoptera exigua* Hübner, beet
armyworm.
- 8322 AC Churchill (ARSEF 2575 SS2). 11 Dec 2000.
USA: USDA ARS Plant Protection Research Unit,
Ithaca, New York. Single spore reisolate of ARSEF
2575 passed through *Spodoptera exigua* Hübner, beet
armyworm.
- 8820 BD Donzelli (SS#1). 14 Oct 2008. Laboratory
isolation. A complete genomic sequence is being
obtained from this single-spore re-isolate of ARSEF
2575.
- 9607 T Myles (Guelph-RF-08b). *Reticulitermes flavipes*
[Isoptera: Rhinotermitidae]. Rec'd 16 Mar 2010.
Canada: Guelph, Ontario.
- 10000 DW Roberts (DWR 1997). Isolated from soil sample
SS 10655. 11 Jun 2008. USA: Elko County, Nevada.
N 41.30356, W 116.2446.
-
- Metarhizium taii* ZQ Liang & AY Liu**
[Sordariomycetes: Hypocreales]
Clavicipitaceae. Species remaining here need to be con-
firmed genetically for placement, presumably, in *M.
guizhouense*.
-
- 6750 GUL Braga and DW Roberts (DWR 04). 13 Mar
1999. USA: Utah State University, Department of Bi-
ology, Logan, Utah. Color mutant (yellow) obtained
from ARSEF 5714 following UV-B exposure.
- 6751 GUL Braga and DW Roberts (DWR 05). 13 Mar
1999. USA: Utah State University, Department of
Biology, Logan, Utah. Color mutant (violet) obtained
from ARSEF 5714 following UV-B exposure.
- 6752 GUL Braga and DW Roberts (DWR 06). 13 Mar
1999. USA: Utah State University, Department of
Biology, Logan, Utah. Color mutant (violet) obtained
from ARSEF 5714 following UV-B exposure.
- 6753 GUL Braga and DW Roberts (DWR 09). 23 Mar
1999. USA: Utah State University, Department of
Biology, Logan, Utah. Color mutant (violet) obtained
from ARSEF 5714 following UV-B exposure.
- 6754 GUL Braga and DW Roberts (DWR 10). 23 Mar
1999. USA: Utah State University, Department of
Biology, Logan, Utah. Color mutant (violet) obtained
from ARSEF 5714 following UV-B exposure.
-
- Nomuraea* sp.**
[Sordariomycetes: Hypocreales]
Clavicipitaceae
-
- 2413 K Narayanan (15). *Helicoverpa armigera* [Lepidop-
tera: Noctuidae]. Acc'd 6 May 1987. India.
- 7851 [SRCAM F-364] V Likhovidov (VL-95-2) ← BA
Borisov (B-412). Rec'd 14 Mar 2005.

Nomuraea anemonoides Hocking
[Sordariomycetes: Hypocreales]

Clavicipitaceae

- 2467 [ATCC 34948; IMI 214110; JI Pitt FRR 1665] UAMH (5301) ← AD Hocking. Soil. 1974. Australia: Blue Mts., New South Wales. CULTURE EX TYPE.

Nomuraea atypicola (Yasuda) Samson
[Sordariomycetes: Hypocreales]

Ophiocordycipitaceae

- 1904 MC Rombach (7). [Araneida: ?Argiopidae] on underside of cacao leaves. Apr 1985. Solomon Islands: nr. Metapona, Guadalcanal.
- 7130 ND Vandersal. 17 May 2003. USA: Sardis Reservoir, Mississippi.
- 7231 BW Horn. *Nephila clavipes* [Araneida: Tetragnathidae]. Sep 2003. USA: Dawson, Georgia.
- 7348 M Liu. 18 Aug 2003.
- 9594 X Zou (1). [Araneida]. Rec'd 19 Jan 2010. PR China: Guangxi Autonomous Region.

Nomuraea cylindrospora (Chen & Guo) Tzean, Hsieh, Chen & Wu
[Sordariomycetes: Hypocreales]

Clavicipitaceae

- 6926 SS Tzean (PPH 13E). *Pomponia linearis* [Homoptera: Cicadidae]. 1 Jun 1990. Republic of China: Wulai, Taipei, Taiwan.

Nomuraea rileyi (Farlow) Samson
[Sordariomycetes: Hypocreales]

Clavicipitaceae. Early vegetative development of cultures on solid media usually occurs in mucoid colonies of fusoid yeast-like cells: mycelial development should begin after several days. Most strains are observed to sporulate most abundantly on Sabouraud maltose agar + 1% yeast extract.

- 135 JV Bell. [Lepidoptera: Noctuidae]. Acc'd 11 Nov 1982. USA: Stoneville, Mississippi.
- 323 RS Soper. *Spodoptera* sp. [Lepidoptera: Noctuidae]. 14 Feb 1979. Australia: Arriga, Queensland.
- 345 C Ignoffo. 24 Oct 1978. USA: Columbia, Missouri.
- 358 RS Soper. *Spodoptera* sp. [Lepidoptera: Noctuidae]. 26 Feb 1979. Australia: Queensland.
- 380 [FPMI 753] RS Soper. *Spodoptera* sp. [Lepidoptera: Noctuidae]. 26 Feb 1979. Australia: Queensland.
- 481 RS Soper (10). *Lymantria* sp. [Lepidoptera: Lymantriidae]. 5 May 1980. Philippines: IRRI, Los Baños, Manila.
- 482 RS Soper. *Lymantria* sp. [Lepidoptera: Lymantriidae]. 5 May 1980. Philippines: IRRI, Los Baños, Manila.
- 483 RS Soper. *Lymantria* sp. [Lepidoptera: Lymantriidae]. 5 May 1980. Philippines: IRRI, Los Baños, Manila.

- 539 DW Roberts ← M Panyarjun. *Spodoptera exigua* [Lepidoptera: Noctuidae]. 26 Aug 1980. Thailand.
- 540 DW Roberts. *Spodoptera exigua* [Lepidoptera: Noctuidae]. 26 Aug 1980. Thailand.
- 558 RS Soper (8133-3). *Sogatella furcifera* [Homoptera: Delphacidae]. 3 Mar 1981. Indonesia: Sigere, Pangkajene, Sulawesi Selatan, Celebes.
- 711 RS Soper. *Bombyx mori* [Lepidoptera: Bombycidae]. Fall 1981. PR China: Hangzhou, Zhejiang.
- 740 [CNPAF 82-1-6-18; CP 12] RA Daoust. *Spodoptera* sp. [Lepidoptera: Noctuidae]. 6 Jan 1982. Brazil: CNPAF, Goiânia, Goiás.
- 762 TA Coudron ← B Puttler. *Plathypena scabra* [Lepidoptera: Noctuidae] on alfalfa. 2 Jul 1982. USA: Columbia, Missouri.
- 935 [CNPAF 83-2-17-01; CP 74] RA Daoust ← E Ferreira. *Spodoptera* sp. [Lepidoptera: Noctuidae]. 17 Feb 1983. Brazil: CNPAF, Goiânia, Goiás.
- 936 [CNPAF 83-02-18-01; CP 75] RA Daoust ← SM dos Santos. Larva, [Lepidoptera]. 18 Feb 1983. Brazil: CNPAF, Goiânia, Goiás.
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- 1670 G Riba (NR-11). Acc'd 29 Oct 1984. France.
- 1671 G Riba (NR-5). Acc'd 29 Oct 1984. France.
- 1756 MC Rombach ← BM Shepard (NrMin-14). *Rivula atimeta* [Lepidoptera: Noctuidae] on rice. Aug 1984. Philippines: Mindanao.
- 1757 MC Rombach ← BM Shepard (NrMin-19). *Rivula atimeta* [Lepidoptera: Noctuidae] on rice. Aug 1984. Philippines: Mindanao.
- 1758 MC Rombach ← BM Shepard (NrMin-1). *Rivula atimeta* [Lepidoptera: Noctuidae] on rice. Aug 1984. Philippines: Mindanao.
- 1759 MC Rombach ← BM Shepard (NrMin-5). *Rivula atimeta* [Lepidoptera: Noctuidae] on rice. Aug 1984. Philippines: Mindanao.
- 1760 MC Rombach ← BM Shepard (NrMin-23). *Rivula atimeta* [Lepidoptera: Noctuidae] on rice. Aug 1984. Philippines: Mindanao.
- 1761 MC Rombach (Nr-B). *Cnaphalocrocis medinalis* [Lepidoptera: Pyralidae]. Aug 1984. Philippines: insectary, IRRI, Los Baños, Manila.
- 1762 MC Rombach ← G Barrion (Nr-BS). *Mocis frugalis* [Lepidoptera: Noctuidae] on rice. Nov 1984. Philippines: Bangued, Abra.
- 1879 DW Roberts (090485-3). Larva, [Lepidoptera] on rice. 9 Apr 1985. Solomon Islands: nr. Honiara, Guadalcanal.
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- 2201 LC Piazza ← L da Silva (A285). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. Mar 1984. Brazil: Guaiba, Rio Grande do Sul.
- 2202 LC Piazza ← NM de Barros (A485). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 24 Mar 1985. Brazil: Vacaria, Rio Grande do Sul.
- 2203 LC Piazza (A86). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 13 Mar 1986. Brazil: Vacaria, Rio Grande do Sul.
- 2204 LC Piazza ← FM Ellwanger (B86). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 12 Mar 1986. Brazil: Ijuí, Rio Grande do Sul.
- 2205 LC Piazza ← L Baloch (C86). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 10 Mar 1986. Brazil: Sarandi, Rio Grande do Sul.
- 2206 LC Piazza ← DN Gassen (D86). *Rachiplusia nu* [Lepidoptera: Noctuidae]. 8 May 1986. Brazil: Passo Fundo, Rio Grande do Sul.
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- 2390 [ARSEF 2345] MC Rombach (111286-2). *Naranga* sp. [Lepidoptera: Noctuidae] on rice. 11 Dec 1986. Indonesia: nr. Klaten, Jawa Tengah, Java.
- 2395 MC Rombach (121186-1). *Rivula atimeta* [Lepidoptera: Noctuidae]. 12 Nov 1986. Philippines: IRRI farm, Los Baños, Manila.
- 2465 TJ Poprawski (8708) ← AJ Nasca (Nr-IY3). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 1986. Argentina: Santiago del Estero.
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- 5206 C López Lastra (2). Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 22 Mar 1996. Argentina: Chivilcoy, Buenos Aires.
- 5207 C López Lastra (3). Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae] Soybean crop. 22 Mar 1996. Argentina: Chivilcoy, Buenos Aires.
- 5208 C López Lastra (4). Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae] Soybean crop. 22 Mar 1996. Argentina: Chivilcoy, Buenos Aires.
- 5209 C López Lastra (5). Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae] Soybean crop. 7 May 1996. Argentina: Chivilcoy, Buenos Aires.
- 5210 C López Lastra (6). Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae] Soybean crop. 18 Apr 1996. Argentina: Chivilcoy, Buenos Aires.
- 5211 C López Lastra (11). Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae] Soybean crop. 7 May 1996. Argentina: Chivilcoy, Buenos Aires.
- 5212 C López Lastra (14). Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae] Soybean crop. 18 Apr 1996. Argentina: Chivilcoy, Buenos Aires.
- 6239 [RCEF 0290] *Helicoverpa armigera* [Lepidoptera: Noctuidae]. Rec'd 24 Aug 1999. PR China: Anhui.
- 6645 KU Devi (GIV). Larva, *Spodoptera litura* [Lepidoptera: Noctuidae]. Mar 2000. India: Peanut fields, Visakhapatnam, Andhra Pradesh.
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- 6781 DR Sosa-Gómez (CNPSO Nr 197). *Plusiinae* sp. [Lepidoptera: Noctuidae]. 9 Feb 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** consult Curator.
- 6782 DR Sosa-Gómez (CNPSO Nr 198). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 9 Feb 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** consult Curator.
- 6783 DR Sosa-Gómez (CNPSO Nr 199). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 9 Feb 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** consult Curator.
- 6784 DR Sosa-Gómez (CNPSO Nr 200). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 9 Feb 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** consult Curator.
- 6785 DR Sosa-Gómez (CNPSO Nr 201). *Plusiinae* sp. [Lepidoptera: Noctuidae]. 9 Feb 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** consult Curator.
- 6786 DR Sosa-Gómez (CNPSO Nr 202). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 9 Feb 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** consult Curator.
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- 6866 DG Boucias (5762). *Pseudoplusia includens* [Lepidoptera: Noctuidae]. 1974. USA: Gainesville, Florida.
- 6867 DG Boucias (1795). *Spodoptera* sp. [Lepidoptera: Noctuidae]. Rec'd 7 Jun 2001. India.
- 6868 DG Boucias (6009). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 24 Sep 2000. USA: Gainesville, Florida.
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- 6870 DG Boucias (6011). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 24 Sep 2000. USA: Quincy, Florida.
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- 6875 DG Boucias (Nr10). [Lepidoptera: Noctuidae]. Rec'd 7 Jun 2001. Brazil: São Paulo, São Paulo.
- 6876 DG Boucias (94-5c). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 7 Sep 1994. USA: Quincy, Florida.
- 6877 DG Boucias (NrCH6). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 18 Apr 1996. Argentina: Buenos Aires, Buenos Aires.
- 6878 DG Boucias (Nr24). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 22 Jan 1990. Brazil: Paraná.
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- 6880 DG Boucias (6026). Aug 2000. Mexico.
- 6881 DG Boucias (33b). *Plathypena scabra* [Lepidoptera: Noctuidae]. 13 Sep 1993. USA: Quincy, Florida.
- 6882 DG Boucias (8b). *Pseudoplusia includens* [Lepidoptera: Noctuidae]. 13 Sep 1993. USA: Quincy, Florida.
- 7052 C López Lastra (B5). Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae] on *Glycine max* (L.) Merr., soybean crop. Apr 2002. Argentina: Bartolomé Bavio, Buenos Aires.
- 7053 C López Lastra (Ch 2 b). Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae] on *Glycine max* (L.) Merr., soybean crop. Apr 2002. Argentina: Chivilcoy, Buenos Aires.
- 7054 C López Lastra (Ch 90). Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae] on *Glycine max* (L.) Merr., soybean crop. Apr 2002. Argentina: Chivilcoy, Buenos Aires.
- 7055 C López Lastra (Ch 91). Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae] on *Glycine max* (L.) Merr., soybean crop. Apr 2002. Argentina: Chivilcoy, Buenos Aires.
- 7056 C López Lastra (LP1). Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae] on *Glycine max* (L.) Merr., soybean crop. Apr 2002. Argentina: La Plata, Buenos Aires.
- 7148 C López Lastra (AL IS INTA). Larva, *Alabama argillacea* [Lepidoptera: Noctuidae] on *Gossypium hirsutum*, cotton crop. Mar 2001. Argentina: Santiago del Estero.
- 7149 C López Lastra (B3). Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae] on *Glycine max* (L.) Merr., soybean crop. 9 Apr 2001. Argentina: Partido Magdalena, Bartolomé Bavio, Buenos Aires.
- 7150 C López Lastra (SF 9). Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae] on *Glycine max* (L.) Merr., soybean crop. 20 May 2002. Argentina: Bombal, Santa Fe.

- 7151 C López Lastra (SF15). Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae] on *Glycine max* (L.) Merr., soybean crop. 20 May 2002. Argentina: Zavalla, Santa Fe.
- 7479 [CEP 019] C López Lastra (Ch 9). Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 9 Apr 2001. Argentina: Chivilcoy, Buenos Aires.
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- 7481 [CEP 023] C López Lastra (Ch 90). Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. Apr 2001. Argentina: Chivilcoy, Buenos Aires.
- 7482 [CEP 064] C López Lastra (P11). Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 2003. Argentina: INTA Pergamino, Pergamino, Buenos Aires.
- 7483 [CEP 006] C López Lastra (Suelo). Isolated from soil. 2004. Argentina: Colonia Urquiza, La Plata, Buenos Aires.
- 7484 [CEP 034] C López Lastra (SF2). Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 20 May 2002. Argentina: Zavalla, Santa Fe.
- 7778 [CEP 021] C López Lastra ← V Dikgolz. Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae] on *Glycine max* (L.) Merr., soybean crop. 9 Apr 2001. Argentina: Chivilcoy, Buenos Aires.
- 7779 [CEP 035] C López Lastra ← B Díaz. Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 20 May 2002. Argentina: Zavalla, Santa Fe.
- 7780 [CEP 037] C López Lastra ← B Díaz. Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 20 May 2002. Argentina: Zavalla, Santa Fe.
- 7791 R Barakat (N.R. 3). Isolated from soil sample. 23 Aug 2004. The Palestinian Authority: Jenin.
- 7792 R Barakat (N.R. 5). Isolated from soil sample. 23 Aug 2004. The Palestinian Authority: Jenin.
- 7793 R Barakat (N.R. 17). Isolated from soil sample. 23 Aug 2004. The Palestinian Authority: Jenin.
- 7794 R Barakat (N.R. 18). Isolated from soil sample. 23 Aug 2004. The Palestinian Authority: Jenin.
- 9489 [SRCAMB VL-2125] V Likhovidov. Larva, [Lepidoptera: Noctuidae]. Aug 2006. Russian Federation: Moscow Region. Field Collection Number F-139.
- 9490 [SRCAMB B-412] V Likhovidov ← BA Borisov. Larva, [Lepidoptera: Noctuidae]. Sep 1995. Russian Federation: Vladivostok, Primorsky Krai. Field Collection Number F-364.

Nomuraea viridulus Tzean, Hsieh, Chen & Wu
[Sordariomycetes: Hypocreales]
Clavicipitaceae

- 6927 SS Tzean (PPh 14E). *Cryptotympana facialis* [Homoptera: Cicadidae]. 2 Jul 2000. Republic of China: Yangmingshan National Park, Taipei, Taiwan.

Host by Fungus

Metarhiziopsis microspora [Homoptera: Diaspididae] <i>Fiorinia externa</i> 8676 8984 8985 8986 8987 8988	Metarhizium anisopliae var. majus [Coleoptera: Scarabaeidae] <i>Oryctes rhinoceros</i> 2151 3145 <i>Xyloryctes jamaicensis</i> 297 298	Antitrogus parvulus 7496 7819 7839 7854 7864 8832 8833 8834 8893
Metarhizium sp. [Coleoptera: Scarabaeidae] <i>Dermolepida albohirtum</i> 7493 <i>Rhopaea magnicornis</i> 7495 8851 8852 8855 8856 8857	[Lepidoptera: Noctuidae] <i>Spodoptera</i> 8736	<i>Aphodius tasmaniae</i> 4125 4132 4133 4139 7845
[Homoptera: Cicadellidae] Unknown species 2353		<i>Costelytra zealandica</i> 3056 3057
[Lepidoptera: Pyralidae] <i>Galleria mellonella</i> 4997 4998 4999 5000 5001 5076 5077		<i>Cyclocephala</i> 8837 8838
[Orthoptera: Catantopidae] <i>Calliptamus italicus</i> 8699		<i>Dasygnathus dejeani</i> 8839
[Orthoptera: Pyrgomorphidae] <i>Zonocerus variegatus</i> 3615 3618		<i>Dermolepida albohirtum</i> 7452 7492 8744 8754 8755 10469
Metarhizium acridum [Orthoptera: Acrididae] Unknown species 5735 <i>Austracris guttulosa</i> 324 4605 <i>Locusta migratoria capito</i> 5736 <i>Ornithacris cavroisi</i> 3341 7486 <i>Patanga succincta</i> 3609 <i>Schistocerca piceifrons</i> 5747 5748 5750	[Acar: Ixodidae] <i>Boophilus</i> 4556	<i>Heteronychus arator</i> 7932 7933 7934 7935 7936 8549 8550 8551 8552 8553 8554 8555 8556 8557 8576 8848 8849
[Orthoptera: Acrididae: Cyrtacanthacridinae] <i>Kraussaria angulifera</i> 3612 6421	[Araneida] Unknown species 5851	<i>Heteronyx</i> 7843 7844 8586
[Orthoptera: Pyrgomorphidae] <i>Zonocerus elegans</i> 3391	[Coleoptera] Unknown species 4290 4333 4334 4335 4336 4337 4338 4339 4340 4341 4557 4558 4572 4582	<i>Heteronyx piceus</i> 7451 8500 8558 8559 8582 8583 8592 8615 8616 8617 8618 8619 8620 8621
Metarhizium album [Homoptera: Cicadellidae] Unknown species 2081 <i>Cofana spectra</i> 2082 <i>Nephrotettix virescens</i> 1840 1941 1942 1943 2176 2178 <i>Recilia dorsalis</i> 2179	[Coleoptera: Bruchidae] Unknown species 932 954	<i>Heteronyx rugosipennis</i> 8563 8564 8565 8566 8567 8577 8610
Metarhizium anisopliae [Diptera] Unknown species 9487	[Coleoptera: Carabidae] Unknown species 939 1901	<i>Lepidiota consobrina</i> 7411 7827 7828 7846 8830 8831 8845 8850
Metarhizium anisopliae var. acridum [Orthoptera: Acrididae] Unknown species 5734 <i>Austracris guttulosa</i> 7970 8359	[Coleoptera: Cerambycidae] <i>Agriancome spinicollis</i> 7498 7499 7500	<i>Lepidiota frenchi</i> 7829 7830 7831 8733
[Orthoptera: Acrididae: Cyrtacanthacridinae] <i>Kraussaria angulifera</i> 3614	<i>Anoplophora glabripennis</i> 6388 6389 7180 7234 8415 8416 8417 8418 8419 8420	<i>Lepidiota gibbifrons</i> 7824 7825 7826
[Orthoptera: Pyrgomorphidae]	[Coleoptera: Chrysomelidae] <i>Brontispa longissima</i> 8745 8746 8747	<i>Lepidiota negatoria</i> 7832
Metarhizium anisopliae var. acridum [Orthoptera: Acrididae] Unknown species 5734 <i>Austracris guttulosa</i> 7970 8359	<i>Cerotoma arcuata</i> 760 2076 2077 2635 2941	<i>Lepidiota noxia</i> 7504
[Orthoptera: Acrididae: Cyrtacanthacridinae] <i>Kraussaria angulifera</i> 3614	<i>Diabrotica</i> 1885 2513	<i>Lepidiota picticollis</i> 8501
[Orthoptera: Pyrgomorphidae] <i>Zonocerus variegatus</i> 3606	<i>Diabrotica speciosa</i> 1056 1958	<i>Lepidiota squamulata</i> 7816
Metarhizium anisopliae var. anisopliae [Diptera] Unknown species 9487	[Coleoptera: Coccinellidae] <i>Coleomegilla maculata</i> 808	<i>Melolontha melolontha</i> 7532
Metarhizium anisopliae var. anisopliae [Diptera: Syrphidae] <i>Eumerus strigatus</i> 6550	[Coleoptera: Curculionidae] Unknown species 8098 8099	<i>Oryctes</i> 2156 2165 2166 2167
Metarhizium anisopliae var. lepidotae [Coleoptera: Scarabaeidae] <i>Dermolepida albohirtum</i> 7453 <i>Lepidiota consobrina</i> 8732	<i>Blosyrus asellus</i> 9217 9218	<i>Pachnoda interrupta</i> 6670 6671 6672 6673 6674 6675 6677 6678 6679 6680 6682 6683 6684 6685
	<i>Chalcodermus aeneus</i> 725 929	<i>Papuana</i> 8748
	<i>Desiantha diversipes</i> 8568 8569	<i>Phyllopertha horticola</i> 6901
	<i>Geraeus senilis</i> 3305 3306 3308	<i>Phyllophaga ?anza</i> 2135 2136 2137 2138 2139
	<i>Listronotus maculicollis</i> 9374	<i>Phyllophaga anxia</i> 8499
	<i>Otiorhynchus ligustici</i> 4819 4820 4821 4822 4823 4824	<i>Popillia japonica</i> 1280 2548 3329 3330 3331 3332 3333 3334 3335 3336 3337 3338 3339 3340 3713 3720 4907 4908 9372
	<i>Otiorhynchus sulcatus</i> 818 6549	<i>Rhopaea magnicornis</i> 8492 8765 8766 8767 8829 8844
	<i>Rhabdoscelus obscurus</i> 8762 8828 8847	<i>Rhopaea verreauxii</i> 8495
	<i>Sternechus subsignatus</i> 1989	<i>Sericesthis micans</i> 4568 4777 4778
	[Coleoptera: Elateridae] Unknown species 8543 8544 8545 8546 8547 8548	<i>Sericesthis nigrolineata</i> 4780 7814 7863
	<i>Agriotes</i> 6551 7494 7524	<i>Sericethis</i> 4134 4236
	<i>Agriotes sputator</i> 1377	[Coleoptera: Staphylinidae] Unknown species 8734
	<i>Conoderus</i> 1903	[Coleoptera: Tenebrionidae] <i>Alphitobius diaperinus</i> 5837 5841 5842 5848 5850
	<i>Limonius canus</i> 7000 7001 7002 7003 7004 7005 7006 7007 7008 7009	<i>Tenebrio molitor</i> 8775 8776 8777 8778 8779 8780 8781 8782 8783 8784 8785 8786 8787 8788 8789 8790 8791 8792 8793 8794 8795 8796 8797 8798 8799 8858 8859 8860 8861 8862 8863 8864 8865 8866 8867 8868 8869 8870 8871 8872 8873 8874 8875 8876 8877 8878 8879 8880 8881 8882 8883 8884 8885 8886 8887 8894 8895 8896 8897 8898 8899 8900 8901 8902 8903 8904 8905 8906 8907 8908 8909 8910 8911 8912 8913 8914
	<i>Adoryphorus coulonii</i> 4137 4138 4141 4142 4239 4346 4677 4716 4722 7815	
	<i>Amphimallon majale</i> 9373	
	<i>Anomola</i> 8738 8739 8740 8741 8742 8743	
	<i>Anoplognathus</i> 8764	
	<i>Anoplognathus hirsutus</i> 4574 4779	
	<i>Antitrogus consanguineus</i> 8761	
	<i>Antitrogus mussoni</i> 7842 7865 7931	

Metarhizium anisopliae sensu lato
Metarhizium anisopliae sensu stricto

Host by Fungus

8915 8916 8941 8942 8943 8944
 8945 8946 8947 8948 8949 8950
 8951 8952 8953 8954 8955 9235
 9236

Tribolium castaneum 3389 5624

[Diptera]
 Unknown species 9939

[Diptera: Anthomyiidae]
Delia floralis 5520

[Diptera: Culicidae]
Ochlerotatus triseriatus 3827

[Diptera: Ephydriidae]
?Hydrellia 2105

Scatella tenuicosta 8248 8249

[Diptera: Stratiomyidae]
Boreoides tasmaniensis 4600 4620
Inopus rubriceps 7840 7841 7855 7856
 7857 7858 7859 7860 7861 7914
 7915 7916 7917 7918 7919 7920
 7926 8497

[Hemiptera: Pentatomidae]
Nezara viridula 1055
Scutinophara coarctata 1432 1548 2341
 2342 2343

Tibraca limbaticollis 1882 1883 2212
 2213 2214

[Homoptera]
 Unknown species 4901 4902

[Homoptera: Adelgidae]
Adelges tsugae 9590

[Homoptera: Aphididae]
Diuraphis noxia 3822
Pemphigus trehernei 6570

[Homoptera: Cercopidae]
 Unknown species 1282 1299 1379 1382
 1890 1891 1895 1899 1902 1911
 3147 3307 7474 7475 7476 8376
 8498 8527

Aeneolamia varia 6319 6342 6343 6345
 6346

Deois 2521

Deois flavopicta 729 759 782 925 955
 1970

Deois incompleta 1449

Kanaima fluvialis 8377

Mahanarva posticata 1896 1898

Mahanarva sp. 6321 6322

Zulia carbonaria 6457 6468

Zulia colombiana 6356

Zulia pubescens 6323

[Homoptera: Cicadellidae]
Recilia dorsalis 543

[Homoptera: Cicadidae]
 Unknown species 4095

[Homoptera: Delphacidae]
Nilparvata lugens 456 457 485 486
 487 488 489 1284 1285 1286 1290
 1300 1304 1726 1727 1728 1744
 1745 1823 2038 2039

[Homoptera: Pseudococcidae]
Paracoccus marginatus 9612 9613

[Hymenoptera: Encyrtidae]
Anagyrus 3146

[Hymenoptera: Formicidae]
Atta 2510

Murmicula rubra 7059 7535 7537 7538

Myrmica scabrinodis 7536

[Isoptera]
 Unknown species 2949 2951

[Isoptera: Kalotermitidae]
Cryptotermes brevis 7927 7928 7930
Neoterpes 8731

[Isoptera: Mastotermitidae]
Mastotermes 7506
Mastotermes darwiniensis 8581 8584
 8585 8587 8588 8589

[Isoptera: Rhinotermitidae]
Coptotermes 8063 8089 8092 8093
Coptotermes acinaciformis 8064 8081
 8087 8088
Coptotermes formosanus 6909 6910
 6911 8015
Coptotermes frenchi 8067
Coptotermes lacteus 8059 8072 8073
 8074 8094 8095 8231 8232 8233
 8234 8235 8236 8502 8503 8504
 8505 8506 8507 8508 8509 8510
 8511 8512 8513 8514 8515 8516
 8517 8518 8531 8532 8533 8534
 8535 8536 8537 8538 8539 8540
 8541 8542 8575

[Isoptera: Termitidae]
Drepanotermes perniger 8062
Microcerotermes 8590 8591
Nasutitermes exitiosus 8060 8061 8068
 8069 8070 8071 8075 8080 8082
 8083 8084 8085 8086 8090 8091
 8097 8100 8229 8230 8570

[Lepidoptera]
 Unknown species 1094 2424 9541

[Lepidoptera: Crambidae]
 Unknown species 3064

[Lepidoptera: Hepialidae]
Oncopera alboguttata 7820 7821 7822
 7823
Oncopera intrucata 4234
Wiseana sp. 4681

[Lepidoptera: Lasiocampidae]
Malacosoma disstria 6167

[Lepidoptera: Noctuidae]
Spodoptera 8735
Spodoptera frugiperda 3293

[Lepidoptera: Nymphalidae]
Chlosyne lacinia saundersii 1059

[Lepidoptera: Plutellidae]
Plutella xylostella 4522

[Lepidoptera: Pyralidae]
Diatraea saccharalis 3290 3291 3292
Eoreuma loftini 5469
Galleria mellonella 4904 4905 4906
 5369 5513 5514 5515 5516 5517
 5518 5519 5521 5554 5555 5556
 6475 6558 7014 7015 7016 7017
 7018 7019 7020 7021 7022 7023
 7024 7025 7026 7569 7570 7571
 7572 7573 7612 7613 7614 7615
 7847 7967 8212 8334 8335 8336
 8338 8341 8342 8344 8346 8347
 8350 8351 8352 8353 8432 8433
 8434 8435 8436 8437 8438 8440
 8443 8445 8446 8447 8450 8451
 8452 8453 8454 8560 8660 8662

8665 8669 8680 8681 8682 8683
 8684 8685 8686 8687 8688 8689
 8690 8691 8692 8769

[Orthoptera]
 Unknown species 728 6237

[Orthoptera: Acrididae]
 Unknown species 8608 8609

Acrotylus 3605
Oxya multidentata 3619
Phaulacridium vittatum 7862
Schistocerca gregaria 3127 5628
Schistocerca piceifrons 5746 5749 5752

[Orthoptera: Catantopidae]
Calliptamus italicus 8696 8698 8701
 8702

[Orthoptera: Gryllidae]
Teleogryllus commodus 435 438 440
 441 442 445 7489 7490 8760 8841
 8842

[Phasmatodea: Phasmatidae]
 Unknown species 6236

[Primates: Hominidae]
Homo sapiens 8759

[Thysanoptera: Thripidae]
Frankliniella occidentalis 9591
Taeniothrips inconsequens 10135
 10136 10137

Metarhizium anisopliae sensu stricto

[Coleoptera: Chrysomelidae]
Brontispa longissima 2223

[Coleoptera: Curculionidae]
Otiorrhynchus sulcatus 6546

[Coleoptera: Elateridae]
Conoderus 2518

[Coleoptera: Scarabaeidae]
Heteronyx piecus 7450
Phyllophaga cuyabana 3924

[Diptera: Stratiomyidae]
 Unknown species 7418 7419 7423 7426
 7427 7428

[Hemiptera: Pentatomidae]
 Unknown species 755

[Homoptera: Cercopidae]
 Unknown species 1045 1912
Aeneolamia varia 798 3621 6347
Deois flavopicta 1044 1900 2517
Mahanarva fimbriolata 7979 7981
Mahanarva posticata 1894 2627 7980
Zulia pubescens 6317 6318

[Homoptera: Cicadellidae]
Nephrotettix virescens 2153

[Homoptera: Delphacidae]
Nilparvata lugens 2080 2421

[Isoptera: Mastotermitidae]
Mastotermes darwiniensis 7430

[Isoptera: Rhinotermitidae]
Coptotermes lacteus 7432

[Lepidoptera: Noctuidae]
Helicoverpa zea 1080
Mocis 587

[Lepidoptera: Pyralidae]
Eoreuma loftini 5471
Ostrinia nubilalis 1489

[Orthoptera: Acrididae]
Schistocerca gregaria 7487

Host by Fungus

Metarhizium anisopliae sensu stricto *Metarhizium robertsii*

[Orthoptera: Gryllotalpidae] Unknown species 2786	Metarhizium flavoviride var. minus [Homoptera: Cicadellidae] Unknown species 2339 <i>Nephrotettix virescens</i> 1945 <i>Recilia dorsalis</i> 1546 1547	Metarhizium majus [Coleoptera: Scarabaeidae] Unknown species 1858 1859 <i>Anoplognathus</i> 4566 4601 7505 <i>Oryctes</i> 1914 <i>Oryctes rhinoceros</i> 978 1946
Metarhizium brunneum [Acari: Ixodidae] <i>Boophilus</i> 3297	[Coleoptera: Cerambycidae] <i>Anoplophora glabripennis</i> 6392	[Lepidoptera: Bombycidae] <i>Bombyx mori</i> 1015
[Coleoptera: Curculionidae] Unknown species 2210 2224 <i>Otiorhynchus sulcatus</i> 817 820 4228 5198 <i>Sitona lineatus</i> 4020	[Homoptera: Delphacidae] <i>Nilaparvata lugens</i> 1099 1271 1272 1273 1274 1275 1276 1277 1279 1283 1287 1288 1289 1291 1292 1293 1294 1295 1296 1297 1301 1302 1303 1305 1763 1764 1765 1766 1767 1768 1769 1770 1771 1772 1773 2037	Metarhizium pingshaense [Coleoptera] Unknown species 3210 4342 4610
[Coleoptera: Elateridae] <i>Agriotes</i> 2107	[Orthoptera: Acrididae] Unknown species 2023	[Coleoptera: Chrysomelidae] <i>Zygogramma bicolorata</i> 2231
[Coleoptera: Scarabaeidae] Unknown species 472 <i>Aphodius tasmaniæ</i> 346 4131 <i>Diloboderus abderus</i> 6120 <i>Melolontha melolontha</i> 1066 <i>Phyllopertha horticola</i> 6477 <i>Popillia japonica</i> 3864	Metarhizium flavoviride var. novazealandicum [Lepidoptera: Crambidae] Unknown species 8214	[Coleoptera: Curculionidae] <i>Diaprepes abbreviata</i> 5197
[Coleoptera: Tenebrionidae] <i>Tenebrio molitor</i> 5626 <i>Tribolium castaneum</i> 5625	Metarhizium flavoviride var. pemphigum [Homoptera: Aphididae] <i>Pemphigus</i> 7491 <i>Pemphigus trehernei</i> 6569	[Coleoptera: Scarabaeidae] Unknown species 2162 <i>Antitrogus mussoni</i> 7417 <i>Antitrogus parvulus</i> 7410 <i>Costelytra zealandica</i> 7435 <i>Oryctes rhinoceros</i> 538 <i>Scapanes australis</i> 3604
[Diptera: Culicidae] <i>Aedes crinifer</i> 2974 <i>Ochlerotatus triseriatus</i> 3826	[Isoptera: Rhinotermitidae] <i>Reticulitermes flavipes</i> 9358	[Diptera: Stratiomyidae] Unknown species 7414 7421 7422 7425 7429
[Homoptera: Delphacidae] <i>Nilaparvata lugens</i> 455	Metarhizium flavoviride 'Type E' [Homoptera: Cicadellidae] Unknown species 2948	[Hemiptera: Cydnidae] <i>Scaptiores castanea</i> 1448
[Hymenoptera: Formicidae] <i>Solenopsis invicta</i> 3738	Metarhizium frigidum [Coleoptera: Scarabaeidae] <i>Adoryphorus</i> 4124	[Hemiptera: Pentatomidae] <i>Scutinophara coactata</i> 1545
[Isoptera: Rhinotermitidae] <i>Coptotermes formosanus</i> 3045	[Isoptera: Rhinotermitidae] <i>Coptotermes lacteus</i> 7436 7437 7438 7439 7440 7441 7442 7443 7444 7445 7446 7447 7448	[Homoptera: Cicadellidae] <i>Nephrotettix cincticeps</i> 2043 <i>Nephrotettix virescens</i> 2106
[Lepidoptera: Bombycidae] <i>Bombyx mori</i> 988	Metarhizium globosum [Lepidoptera: Pyralidae] <i>Pyrausta mahaeralis</i> 2596	[Homoptera: Delphacidae] <i>Nilaparvata lugens</i> 576 1724 1725 1729
[Lepidoptera: Hepialidae] <i>Oxycanus</i> 1187	Metarhizium guizhouense [Coleoptera: Curculionidae] <i>Myllorcerus discolor</i> 3603 <i>Sitona discoideus</i> 819	[Isoptera: Kalotermitidae] <i>Cryptotermes brevis</i> 7929
[Lepidoptera: Lyonetiidae] <i>Leucoptera scitella</i> 1116	[Coleoptera: Scarabaeidae] Unknown species 683 <i>Melolontha melolontha</i> 977 <i>Papuana woodlarkiana</i> 4604	[Isoptera: Rhinotermitidae] <i>Coptotermes lacteus</i> 7431
[Lepidoptera: Noctuidae] <i>Anticarsia gemmatalis</i> 3295 <i>Spodoptera frugiperda</i> 3294	[Diptera: Stratiomyidae] Unknown species 7420	[Lepidoptera] <i>Galactica</i> 552
[Lepidoptera: Olethreutidae] <i>Carpocapsa pomonella</i> 1095	[Lepidoptera] Unknown species 6238	[Lepidoptera: Noctuidae] <i>Spodoptera</i> 2735
[Lepidoptera: Pyralidae] <i>Galleria mellonella</i> 6474 8671	[Lepidoptera: Bombycidae] <i>Bombyx mori</i> 703	[Orthoptera: Acrididae] <i>Phaulacridium vittatum</i> 7415 7416 <i>Pseudosphingonotus savignyi</i> 3610
[Lepidoptera: Tortricidae] <i>Lobesia botrana</i> 1112	[Lepidoptera: Noctuidae] Unknown species 2140	[Orthoptera: Gryllidae] <i>Ornebius kanetataki</i> 1009
[Orthoptera: Acrididae] <i>Schistocerca piceifrons</i> 5751	[Orthoptera: Acrididae] <i>Pseudosphingonotus savignyi</i> 3611	<i>Teleogryllus commodus</i> 436 437 439 443 444 446
Metarhizium flavoviride [Coleoptera: Curculionidae] <i>Otiorhynchus sulcatus</i> 2024	Metarhizium lepidotiae [Coleoptera: Scarabaeidae] <i>Dermolepida albohirtum</i> 7488 <i>Lepidiota consobrina</i> 7412	Metarhizium robertsii [Coleoptera: Carabidae] Unknown species 2469
[Coleoptera: Scarabaeidae] <i>Lachnosterma bidentata</i> 8737		[Coleoptera: Cerambycidae] <i>Dectes texanus</i> 6472
[Orthoptera: Acrididae] <i>Chortoicetes terminifera</i> 8758		[Coleoptera: Chrysomelidae] <i>Cerotoma arcuata</i> 724 <i>Diabrotica</i> 2514
Metarhizium flavoviride var. flavoviride [Coleoptera: Curculionidae] <i>Otiorhynchus sulcatus</i> 1184		[Coleoptera: Curculionidae] <i>Curculio caryae</i> 2575 3608 <i>Listronotus oregonensis</i> 2981 <i>Otiorhynchus sulcatus</i> 1910
[Coleoptera: Scarabaeidae] <i>Adoryphorus coulonii</i> 4719 4720		[Coleoptera: Elateridae] <i>Conoderus</i> 23 1897
		[Coleoptera: Scarabaeidae] <i>Ancognatha scarabaeoides</i> 797

<i>Heteronychus arator</i> 7424	6868 6869 6870 6872 6873 6874
<i>Heteronyx</i> 7449	6876 6877 6878 7052 7053 7054
<i>Phyllophaga ?anxia</i> 2134	7055 7056 7149 7150 7151 7479
<i>Popillia japonica</i> 1046 1298 1878 3721	7480 7481 7482 7484 7778 7779
5149	7780
<i>Rhizotrogus majalis</i> 2547 3108 3211	<i>Helicoverpa armigera</i> 6239
4123	<i>Mocis frugalis</i> 1762
<i>Strigoderma arboricola</i> 1968	<i>Naranga</i> 2345 2390
[Coleoptera: Tenebrionidae]	<i>Plathypena scabra</i> 762 6871 6881
<i>Tribolium castaneum</i> 3388	<i>Plusia</i> 1047
[Hemiptera: Cydnidae]	<i>Plusiinae</i> 6781 6785 6879
? <i>Cirtonemus</i> 1952	<i>Prodenia litura</i> 1014
[Homoptera: Cicadidae]	<i>Pseudodolplusia includens</i> 6866 6882
Unknown species 3925	<i>Rachispodius</i> nu 2206
[Hymenoptera: Formicidae]	<i>Rivula atimeta</i> 1756 1757 1758 1759
<i>Atta sexdens rubropilosa</i> 2560	1760 2395
<i>Solenopsis</i> 2561	<i>Spodoptera</i> 323 358 380 740 935 6867
[Isoptera: Kalotermitidae]	<i>Spodoptera exigua</i> 539 540
<i>Kalotermes</i> 7413	<i>Spodoptera frugiperda</i> 1972 3301 4094
[Isoptera: Rhinotermitidae]	6735 6768 6769 6770 6771 6772
<i>Reticulitermes flavipes</i> 9607	6773 6774
[Lepidoptera: Nymphalidae]	<i>Spodoptera litura</i> 6645
<i>Chlosyne lacinia saundersii</i> 1057	[Lepidoptera: Pyralidae]
[Lepidoptera: Plutellidae]	<i>Cnaphalocrocis medinalis</i> 1761 2174
<i>Plutella xylostella</i> 5873	
[Lepidoptera: Pyralidae]	
<i>Galleria mellonella</i> 4903 6476	
[Orthoptera: Tettigoniidae]	
Unknown species 727	

Nomuraea sp.

[Lepidoptera: Noctuidae]
<i>Helicoverpa armigera</i> 2413

Nomuraea atypicola

[Araneida]
Unknown species 9594
[Araneida: ?Argiopidae]
Unknown species 1904
[Araneida: Tetragnathidae]
<i>Nephila clavipes</i> 7231

Nomuraea cylindrospora

[Homoptera: Cicadidae]
<i>Pomponia linearis</i> 6926

Nomuraea rileyi

[Homoptera: Delphacidae]
<i>Nilaparvata lugens</i> 2104
<i>Sogatella furcifera</i> 558
[Lepidoptera]
Unknown species 936 1879 1893
[Lepidoptera: Bombycidae]
<i>Bombyx mori</i> 711
[Lepidoptera: Lymantriidae]
<i>Lymantria</i> 481 482 483
[Lepidoptera: Noctuidae]
Unknown species 135 6875 9489 9490
<i>Alabama argillacea</i> 7148
<i>Anticarsia gemmatalis</i> 1950 2013 2201
2202 2203 2204 2205 2207 2465
2466 2492 3940 5206 5207 5208
5209 5210 5211 5212 6731 6732
6734 6736 6737 6738 6739 6740
6741 6742 6743 6744 6745 6746
6747 6748 6749 6764 6765 6766
6767 6775 6776 6777 6778 6779
6780 6782 6783 6784 6786 6787

Fungus by Host and Location

Acari: Ixodidae
Coleoptera: Curculionidae

Animalia

Arthropoda • Arachnida

Acar: Ixodidae

- Boophilus* sp.
- Mexico
 - Metarhizium brunneum* 3297
- USA, Florida
 - Metarhizium anisopliae* sensu lato 4556

Araneida

- Denmark
 - Metarhizium anisopliae* sensu lato 5851
- PR China
 - Nomuraea atypicola* 9594

Araneida: ?Argiopidae

- Solomon Islands
 - Nomuraea atypicola* 1904

Araneida: Tetragnathidae

- Nephila clavipes*
- USA, Georgia
 - Nomuraea atypicola* 7231

Arthropoda • Insecta

Coleoptera

- Solomon Islands
 - Metarhizium anisopliae* sensu lato 4290 4333 4334 4335 4336 4337
 - 4338 4339 4340 4341 4557 4558
 - 4572 4582
 - Metarhizium pingshaense* 4342
 - 4610
- India
 - Metarhizium pingshaense* 3210
- Haphochelus marginalis*
- France
 - Metarhizium anisopliae* sensu lato 3148

Coleoptera: Bruchidae

- Brazil, Goiás
 - Metarhizium anisopliae* sensu lato 932
- Brazil, Mato Grosso
 - Metarhizium anisopliae* sensu lato 954

Coleoptera: Carabidae

- Brazil, Goiás
 - Metarhizium anisopliae* sensu lato 939
- Brazil, Pará
 - Metarhizium anisopliae* sensu lato 1901
- Mexico
 - Metarhizium robertsii* 2469

Coleoptera: Cerambycidae

- Agrianome spinicollis*
- Australia
 - Metarhizium anisopliae* sensu lato 7498 7499 7500
- Anoplophora glabripennis*
- PR China
 - Metarhizium anisopliae* sensu lato 8420
- USA, Connecticut
 - Metarhizium anisopliae* sensu lato 6388 7234 8415 8416 8417 8418
 - 8419
 - Metarhizium brunneum* 6392
- USA, Illinois
 - Metarhizium anisopliae* sensu lato 7180
- USA, Massachusetts
 - Metarhizium anisopliae* sensu lato 6389
- Dectes texanus*
- USA, Kansas
 - Metarhizium robertsii* 6472

Coleoptera: Chrysomelidae

- Brontispa longissima*
- Australia
 - Metarhizium anisopliae* sensu lato 8745 8746 8747
- Western Samoa
 - Metarhizium anisopliae* sensu stricto 2223
- Cerotoma arcuata*
- Brazil, Goiás
 - Metarhizium anisopliae* sensu lato 760 2076 2077 2635 2941
 - Metarhizium robertsii* 724
- Diabrotica* sp.
- Brazil, Goiás
 - Metarhizium anisopliae* sensu lato 1885 2513
 - Metarhizium robertsii* 2514
- Diabrotica speciosa*
- Brazil, Bahia
 - Metarhizium anisopliae* sensu lato 1958
- Brazil, Paraná
 - Metarhizium anisopliae* sensu lato 1056
- Zygogramma bicolorata*
- India
 - Metarhizium pingshaense* 2231

Coleoptera: Coccinellidae

- Coleomegilla maculata*
- Brazil, Goiás
 - Metarhizium anisopliae* sensu lato 808

Coleoptera: Curculionidae

- Indonesia
 - Metarhizium brunneum* 2224
 - Metarhizium anisopliae* sensu lato 8098 8099
- Indonesia, Sulawesi Selatan, Celebes
 - Metarhizium brunneum* 2210

Coleoptera: Curculionidae

- Blosyrus asellus*
- USA, Hawaii
 - Metarhizium anisopliae* sensu lato 9217 9218
- Chalcodermus aeneus*
- Brazil, Goiás
 - Metarhizium anisopliae* sensu lato 725 929
- Curculio caryae*
- USA
 - Metarhizium robertsii* 3608
- USA, South Carolina
 - Metarhizium robertsii* 2575
- Desiantha diversipes*
 - Metarhizium anisopliae* sensu lato 8568 8569
- Diaprepes abbreviata*
- USA, Florida
 - Metarhizium pingshaense* 5197
- Geraeus senilis*
- Mexico
 - Metarhizium anisopliae* sensu lato 3305 3306 3308
- Listronotus maculicollis*
- USA, New York
 - Metarhizium anisopliae* sensu lato 9374
- Listronotus oregonensis*
- Canada, Québec
 - Metarhizium robertsii* 2981
- Myllocerus discolor*
- India
 - Metarhizium guizhouense* 3603
- Otiorhynchus ligustici*
- USA, New York
 - Metarhizium anisopliae* sensu lato 4819 4820 4821 4822 4823 4824
- Otiorhynchus sulcatus*
- Australia
 - Metarhizium brunneum* 4228
- France
 - Metarhizium anisopliae* sensu lato 818
 - Metarhizium brunneum* 817 820
 - Metarhizium flavoviride* 2024
 - Metarhizium flavoviride* var. *flavoviride* 1184
- Germany
 - Metarhizium brunneum* 5198
 - Metarhizium robertsii* 1910
- United Kingdom
 - Metarhizium anisopliae* sensu lato 6549
 - Metarhizium anisopliae* sensu stricto 6546
- Rhabdoscelus obscurus*
- Australia
 - Metarhizium anisopliae* sensu lato 8762 8828 8847
- Sitona discoideus*
- France
 - Metarhizium guizhouense* 819
- Sitona lineatus*
- Denmark
 - Metarhizium brunneum* 4020

Coleoptera: Curculionidae
Coleoptera: Scarabaeidae

Fungus by Host and Location

<i>Sternechus subsignatus</i> Brazil, Paraná <i>Metarhizium anisopliae</i> sensu lato 1989	Australia <i>Metarhizium anisopliae</i> sensu lato 4137 4138 4141 4346 4677 4716 4722 7815 <i>Metarhizium flavoviride</i> var. <i>flavoviride</i> 4719 4720	Australia <i>Metarhizium anisopliae</i> var. <i>lepidiotae</i> 7453 <i>Metarhizium anisopliae</i> sensu lato 7452 8744 8754 8755 10469 <i>Metarhizium lepidiotae</i> 7488
Coleoptera: Elateridae	<i>Amphimallon majale</i> USA, New York <i>Metarhizium anisopliae</i> sensu lato 9373	<i>Diloboderus abderus</i> Argentina <i>Metarhizium brunneum</i> 6120
Agriotes sp.	<i>Ancognatha scarabaeoides</i> Colombia <i>Metarhizium robertsii</i> 797	<i>Heteronychus arator</i> Australia <i>Metarhizium anisopliae</i> sensu lato 7932 7933 7934 7935 7936 8549 8550 8551 8552 8553 8554 8555 8556 8557 8576 8848 8849 <i>Metarhizium robertsii</i> 7424
Switzerland	<i>Anomola</i> sp. Myanmar <i>Metarhizium anisopliae</i> sensu lato 8738 8739 8740 8741 8742 8743	<i>Heteronyx</i> sp. Australia <i>Metarhizium anisopliae</i> sensu lato 7843 7844 8586 <i>Metarhizium robertsii</i> 7449
United Kingdom	<i>Anoplognathus</i> sp. Australia <i>Metarhizium anisopliae</i> sensu lato 8764 <i>Metarhizium majus</i> 4566 4601 7505	<i>Heteronyx piceus</i> Australia <i>Metarhizium anisopliae</i> sensu lato 7451 8500 8558 8559 8582 8583 8592 8615 8616 8617 8618 8619 8620 8621 <i>Metarhizium anisopliae</i> sensu stricto 7450
USA, Oregon	<i>Anoplognathus hirsutus</i> Australia <i>Metarhizium anisopliae</i> sensu lato 4574 4779	<i>Heteronyx rugosipennis</i> Australia <i>Metarhizium anisopliae</i> sensu lato 8563 8564 8565 8566 8567 8577 8610
<i>Metarhizium brunneum</i> 2107	<i>Antitrogus consanguineus</i> Australia <i>Metarhizium anisopliae</i> sensu lato 8761	<i>Lachnostenra bidentata</i> Malaysia <i>Metarhizium flavoviride</i> 8737
<i>Agriotes sputator</i>	<i>Antitrogus mussoni</i> Australia <i>Metarhizium anisopliae</i> sensu lato 7842 7865 7931 <i>Metarhizium pingshaense</i> 7417	<i>Lepidiota consobrina</i> Australia <i>Metarhizium anisopliae</i> sensu lato 8830 8831
Switzerland	<i>Antitrogus parvulus</i> Australia <i>Metarhizium anisopliae</i> sensu lato 8832 8893	Australia <i>Metarhizium anisopliae</i> var. <i>lepidiotae</i> 8732 <i>Metarhizium anisopliae</i> sensu lato 7411 7827 7828 7846 8845 8850 <i>Metarhizium lepidiotae</i> 7412
<i>Limonius canus</i>	<i>Aphodius tasmaniae</i> Australia <i>Metarhizium anisopliae</i> sensu lato 7496 7819 7839 7854 7864 8833 8834 <i>Metarhizium pingshaense</i> 7410	<i>Lepidiota frenchi</i> Australia <i>Metarhizium anisopliae</i> sensu lato 7829 7830 7831 8733
USA, Washington	<i>Costelytra zealandica</i> New Zealand <i>Metarhizium anisopliae</i> sensu lato 3056 3057 <i>Metarhizium pingshaense</i> 7435	<i>Lepidiota gibbifrons</i> Australia <i>Metarhizium anisopliae</i> sensu lato 7824 7825 7826
Coleoptera: Scarabaeidae	<i>Cyclocephala</i> sp. Australia <i>Metarhizium anisopliae</i> sensu lato 8837 8838	<i>Lepidiota negatoria</i> Australia <i>Metarhizium anisopliae</i> sensu lato 7832
Australia	<i>Dasygnathus dejeani</i> Australia <i>Metarhizium anisopliae</i> sensu lato 8839	<i>Lepidiota noxia</i> Australia <i>Metarhizium anisopliae</i> sensu lato 7504
Brazil, Distrito Federal	<i>Dermolepida albohirtum</i> <i>Metarhizium anisopliae</i> sensu lato 7492	<i>Lepidiota picticollis</i> <i>Metarhizium anisopliae</i> sensu lato 8501
<i>Metarhizium anisopliae</i> sensu lato 3479	<i>Metarhizium sp.</i> 7493	
Nepal		
Papua New Guinea		
Poland		
PR China		
<i>Adoryphorus</i> sp.		
Australia		
<i>Metarhizium frigidum</i> 4124		
<i>Adoryphorus coulonii</i>		
<i>Metarhizium anisopliae</i> sensu lato 4142 4239		

Fungus by Host and Location

Coleoptera: Scarabaeidae
Diptera: Stratiomyidae

<i>Lepidiota squamulata</i>	<i>Metarhizium brunneum</i> 3864	8799 8858 8859 8860 8861 8862
Australia	<i>Metarhizium robertsii</i> 5149	8863 8864 8865 8866 8867 8868
<i>Metarhizium anisopliae</i> sensu lato		8869 8870 8871 8872 8873 8874
7816		8875 8876 8877 8878 8879 8880
<i>Melolontha melolontha</i>	3713 3720	8881 8882 8883 8884 8885 8886
France	<i>Metarhizium robertsii</i> 3721	8887 8894 8895 8896 8897 8898
<i>Metarhizium guizhouense</i> 977		8899 8900 8901 8902 8903 8904
Switzerland	<i>Metarhizium anisopliae</i> sensu lato	8905 8906 8907 8908 8909 8910
<i>Metarhizium anisopliae</i> sensu lato	1280 2548 3330 3331 3332 3333	8911 8912 8913 8914 8915 8916
7532	3334 3335 3336 3337 3338 3339	8941 8942 8943 8944 8945 8946
	3340 9372	8947 8948 8949 8950 8951 8952
	<i>Metarhizium robertsii</i> 1298 1878	8953 8954 8955 9235 9236
<i>Oryctes</i> sp.	<i>Rhizotrogus majalis</i>	<i>Tribolium castaneum</i>
Papua New Guinea	USA, Connecticut	Finland
<i>Metarhizium anisopliae</i> sensu lato	<i>Metarhizium anisopliae</i> sensu lato	<i>Metarhizium anisopliae</i> sensu lato
2156 2165 2166 2167	2547 3108	5624
Philippines	3211 4123	<i>Metarhizium brunneum</i> 5625
<i>Metarhizium majus</i> 1914	<i>Rhopaea magnicornis</i>	USA, Washington
<i>Oryctes rhinoceros</i>	Australia	<i>Metarhizium anisopliae</i> sensu lato
France	<i>Metarhizium anisopliae</i> sensu lato	3389
<i>Metarhizium anisopliae</i> var. <i>majus</i>	8492 8765 8766 8767 8829 8844	<i>Metarhizium robertsii</i> 3388
3145	<i>Metarhizium</i> sp. 7495 8851 8852	
<i>Metarhizium majus</i> 978	8855 8856 8857	
Indonesia, Jawa Barat, Java	<i>Rhopaea verreauxii</i>	Diptera
<i>Metarhizium anisopliae</i> var. <i>majus</i>	Australia	Ukraine
2151	<i>Metarhizium anisopliae</i> sensu lato	<i>Metarhizium anisopliae</i> 9487
Philippines	8495	USA, Vermont
<i>Metarhizium majus</i> 1946	<i>Scapanes australis</i>	<i>Metarhizium anisopliae</i> sensu lato
Thailand	Papua New Guinea	9939
<i>Metarhizium pingshaense</i> 538	<i>Metarhizium pingshaense</i> 3604	Diptera: Anthomyiidae
<i>Pachnoda interrupta</i>	<i>Sericesthis micans</i>	<i>Delia floralis</i>
Ethiopia	Australia	Norway
<i>Metarhizium anisopliae</i> sensu lato	<i>Metarhizium anisopliae</i> sensu lato	<i>Metarhizium anisopliae</i> sensu lato
6670 6671 6672 6673 6674 6675	4568 4777 4778	5520
6677 6678 6679 6680 6682 6683	<i>Sericesthis nigrolineata</i>	Diptera: Culicidae
6684 6685	Australia	<i>Aedes crinifer</i>
<i>Papuana</i> sp.	<i>Metarhizium anisopliae</i> sensu lato	Argentina
Papua New Guinea	4780 7814 7863	<i>Metarhizium brunneum</i> 2974
<i>Metarhizium anisopliae</i> sensu lato	<i>Sericethis</i> sp.	<i>Ochlerotatus triseriatus</i>
8748	Australia	USA, NY
<i>Papuana woodlarkiana</i>	<i>Metarhizium anisopliae</i> sensu lato	<i>Metarhizium anisopliae</i> sensu lato
Papua New Guinea	4134 4236	3827
<i>Metarhizium guizhouense</i> 4604	<i>Strigoderma arboricola</i>	<i>Metarhizium brunneum</i> 3826
<i>Phyllopertha horticola</i>	USA, Michigan	
Norway	<i>Metarhizium robertsii</i> 1968	
<i>Metarhizium anisopliae</i> sensu lato	<i>Xyloryctes jamaicensis</i>	Diptera: Ephydriidae
6901	Western Samoa	? <i>Hydrellia</i> sp.
<i>Metarhizium brunneum</i> 6477	<i>Metarhizium anisopliae</i> var. <i>majus</i>	Indonesia, Jawa Barat, Java
<i>Phyllophaga ?anxia</i>	297 298	<i>Metarhizium anisopliae</i> sensu lato
Canada	<i>Coleoptera: Staphylinidae</i>	2105
<i>Metarhizium anisopliae</i> sensu lato	Australia	<i>Scatella tenuicosta</i>
2135 2136 2137 2138 2139	<i>Metarhizium anisopliae</i> sensu lato	USA, New York
<i>Metarhizium robertsii</i> 2134	8734	<i>Metarhizium anisopliae</i> sensu lato
<i>Phyllophaga anxia</i>	<i>Coleoptera: Tenebrionidae</i>	8248 8249
Canada	<i>Alphitobius diaperinus</i>	Diptera: Stratiomyidae
<i>Metarhizium anisopliae</i> sensu lato	<i>Metarhizium anisopliae</i> sensu lato	Australia
8499	5837 5841 5842 5848 5850	<i>Metarhizium anisopliae</i> sensu
<i>Phyllophaga cuyabana</i>	<i>Tenebrio molitor</i>	stricto 7418 7419 7423 7426 7427
Brazil, Paraná	Finland	7428
<i>Metarhizium anisopliae</i> sensu	<i>Metarhizium brunneum</i> 5626	<i>Metarhizium guizhouense</i> 7420
stricto 3924	Republic of China	<i>Metarhizium pingshaense</i> 7414
<i>Popillia japonica</i>	<i>Metarhizium anisopliae</i> sensu lato	7421 7422 7425 7429
Japan	8775 8776 8777 8778 8779 8780	<i>Boreoides tasmaniensis</i>
<i>Metarhizium robertsii</i> 1046	8781 8782 8783 8784 8785 8786	Australia
Portugal	8787 8788 8789 8790 8791 8792	<i>Metarhizium anisopliae</i> sensu lato
<i>Metarhizium anisopliae</i> sensu lato	8793 8794 8795 8796 8797 8798	4600 4620
3329 4907 4908		

<i>Inopus rubriceps</i>	Homoptera: Cercopidae	Brazil, Pernambuco
Australia	Argentina	<i>Metarhizium anisopliae</i> sensu lato stricto 2627 7980
<i>Metarhizium anisopliae</i> sensu lato 7840 7841 7855 7856 7857 7858 7859 7860 7861 7914 7915 7916 7917 7918 7919 7920 7926 8497	Brazil	<i>Mahanarva sp.</i>
Diptera: Syrphidae	Brazil	Colombia
<i>Eumerus strigatus</i>	<i>Metarhizium anisopliae</i> sensu lato 1899 1902 1911 3147 8498	<i>Metarhizium anisopliae</i> sensu lato 6321 6322
United Kingdom	Brazil, Bahia	Zulia carbonaria
<i>Metarhizium anisopliae</i> var. <i>anisopliae</i> 6550	<i>Metarhizium anisopliae</i> sensu lato 1282 1299 1379 1382	Colombia
Hemiptera: Cydnidae	<i>Metarhizium anisopliae</i> sensu lato 1890 1891 1895	<i>Metarhizium anisopliae</i> sensu lato 6457 6468
?Cirtonemus sp.	Mexico	Zulia colombiana
Brazil, Goiás	<i>Metarhizium anisopliae</i> sensu lato 3307	Colombia
<i>Metarhizium robertsii</i> 1952	<i>Metarhizium anisopliae</i> sensu lato stricto 1912	<i>Metarhizium anisopliae</i> sensu lato 6356
<i>Scaptoperes castanea</i>	<i>Aeneolamia varia</i>	Zulia pubescens
Brazil, Goiás	Colombia	Colombia
<i>Metarhizium pingshaense</i> 1448	<i>Metarhizium anisopliae</i> sensu lato 6319 6342 6343 6345 6346	<i>Metarhizium anisopliae</i> sensu lato 6323
Hemiptera: Pentatomidae	<i>Metarhizium anisopliae</i> sensu lato stricto 6347	<i>Metarhizium anisopliae</i> sensu lato stricto 6317 6318
Brazil, Amazonas	Trinidad and Tobago	Homoptera: Cicadellidae
<i>Metarhizium anisopliae</i> sensu lato stricto 755	<i>Metarhizium anisopliae</i> sensu lato stricto 3621	Brazil, São Paulo
<i>Nezara viridula</i>	<i>Deois sp.</i>	<i>Metarhizium flavoviride</i> 'Type E' 2948
Brazil, Paraná	Brazil, Paraná	Philippines
<i>Metarhizium anisopliae</i> sensu lato 1055	<i>Metarhizium anisopliae</i> sensu lato 2521	<i>Metarhizium album</i> 2081
<i>Scotinophara coarctata</i>	<i>Deois flavopicta</i>	<i>Metarhizium flavoviride</i> var. <i>minus</i> 2339
Philippines	Brazil	<i>Metarhizium sp.</i> 2353
<i>Metarhizium anisopliae</i> sensu lato 1432 1548 2341 2342 2343	<i>Metarhizium anisopliae</i> sensu lato stricto 2517	Cofana spectra
<i>Metarhizium pingshaense</i> 1545	Brazil, Bahia	Indonesia, Sulawesi Utara, Celebes
<i>Tibraca limbaticollis</i>	<i>Metarhizium anisopliae</i> sensu lato stricto 1900	<i>Metarhizium album</i> 2082
Brazil, Goiás	Brazil, Espírito Santo	Nephrotettix cincticeps
<i>Metarhizium anisopliae</i> sensu lato 1882 1883 2212 2213 2214	<i>Metarhizium anisopliae</i> sensu lato 925	Philippines
Homoptera	<i>Metarhizium anisopliae</i> sensu lato stricto 1044	<i>Metarhizium pingshaense</i> 2043
Location not specified	Brazil, Goiás	Nephrotettix virescens
<i>Metarhizium anisopliae</i> sensu lato 4901 4902	<i>Metarhizium anisopliae</i> sensu lato 729 759 782 955 1970	Indonesia, Jawa Barat, Java
Homoptera: Adelgidae	<i>Deois incompleta</i>	<i>Metarhizium pingshaense</i> 2106
<i>Adelges tsugae</i>	Brazil, Pará	Indonesia, Sulawesi Selatan, Celebes
USA, Massachusetts	<i>Metarhizium anisopliae</i> sensu lato 1449	<i>Metarhizium anisopliae</i> sensu lato stricto 2153
<i>Metarhizium anisopliae</i> sensu lato 9590	<i>Kanaima fluvialis</i>	Philippines
Homoptera: Aphididae	Argentina	<i>Metarhizium album</i> 1840 1941 1942
<i>Diuraphis noxia</i>	<i>Metarhizium anisopliae</i> sensu lato 8377	1943 2176 2178
Laboratory manipulation	<i>Mahanarva fimbriolata</i>	<i>Metarhizium flavoviride</i> var. <i>minus</i> 1945
<i>Metarhizium anisopliae</i> sensu lato 3822	Brazil, São Paulo	Recilia dorsalis
<i>Pemphigus</i> sp.	<i>Metarhizium anisopliae</i> sensu lato stricto 7979 7981	Philippines
United Kingdom	<i>Mahanarva posticata</i>	<i>Metarhizium album</i> 2179
<i>Metarhizium flavoviride</i> var. <i>pemphigum</i> 7491	Brazil, Bahia	<i>Metarhizium anisopliae</i> sensu lato 543
<i>Pemphigus trehernei</i>	<i>Metarhizium anisopliae</i> sensu lato 1896 1898	<i>Metarhizium flavoviride</i> var. <i>minus</i> 1546 1547
United Kingdom	<i>Metarhizium anisopliae</i> sensu lato stricto 1894	Homoptera: Cicadidae
<i>Metarhizium anisopliae</i> sensu lato 6570		Argentina
<i>Metarhizium flavoviride</i> var. <i>pemphigum</i> 6569		<i>Metarhizium robertsii</i> 3925

Fungus by Host and Location

Homoptera: Cicadidae
Lepidoptera: Bombycidae

<i>Pomponia linearis</i> Republic of China <i>Nomuraea cylindrospora</i> 6926	<i>Atta sexdens rubropilosa</i> Brazil, São Paulo <i>Metarhizium robertsii</i> 2560	<i>Coptotermes frenchi</i> Australia <i>Metarhizium anisopliae</i> sensu lato 8067
Homoptera: Delphacidae	<i>Myrmica rubra</i> United Kingdom <i>Metarhizium anisopliae</i> sensu lato 7535 7537 7538	<i>Coptotermes lacteus</i> Australia <i>Metarhizium pingshaense</i> 7431
<i>Nilaparvata lugens</i> India <i>Metarhizium anisopliae</i> sensu lato 1726 1727 1728 1744 1745 1823 <i>Metarhizium pingshaense</i> 1724 1725 1729	<i>USA, Maine</i> <i>Metarhizium anisopliae</i> sensu lato 7059	<i>Metarhizium anisopliae</i> sensu lato 8059 8072 8073 8074 8094 8095 8231 8232 8233 8234 8235 8236 8502 8503 8504 8505 8506 8507 8508 8509 8510 8511 8512 8513 8514 8515 8516 8517 8518 8531 8532 8533 8534 8535 8536 8537 8538 8539 8540 8541 8542 8575
Homoptera: Delphacidae	<i>Myrmica scabrinodis</i> United Kingdom <i>Metarhizium anisopliae</i> sensu lato 7536	<i>Metarhizium anisopliae</i> sensu stricto 7432
<i>Indonesia, Jawa Barat, Java</i> <i>Metarhizium anisopliae</i> sensu stricto 2080 2421 <i>Nomuraea rileyi</i> 2104	<i>Solenopsis sp.</i> Brazil, São Paulo <i>Metarhizium robertsii</i> 2561	<i>Metarhizium frigidum</i> 7436 7437 7438 7439 7440 7441 7442 7443 7444 7445 7446 7447 7448
<i>Indonesia, Sulawesi Selatan, Celebes</i> <i>Metarhizium pingshaense</i> 576	<i>Solenopsis invicta</i> USA, Texas <i>Metarhizium brunneum</i> 3738	<i>Reticulitermes flavipes</i> Canada, Ontario <i>Metarhizium flavoviride</i> var. <i>pem-</i> <i>phigum</i> 9358 <i>Metarhizium robertsii</i> 9607
Philippines	Isoptera	Isoptera: Termitidae
<i>Metarhizium anisopliae</i> sensu lato 456 457 485 486 487 488 489 1284 1285 1286 1290 1300 1304 <i>Metarhizium brunneum</i> 455	Brazil, Goiás <i>Metarhizium anisopliae</i> sensu lato 2949 2951	<i>Drepanotermes perniger</i> Australia <i>Metarhizium anisopliae</i> sensu lato 8062
<i>Metarhizium flavoviride</i> var. <i>minus</i> 1099 1271 1272 1273 1274 1275 1276 1277 1279 1283 1287 1288 1289 1291 1292 1293 1294 1295 1296 1297 1301 1302 1303 1305 2037	Isoptera: Kalotermitidae	<i>Microcerotermes</i> sp. Australia <i>Metarhizium anisopliae</i> sensu lato 8590 8591
<i>Republic of Korea</i> <i>Metarhizium anisopliae</i> sensu lato 2038 2039	<i>Cryptotermes brevis</i> <i>Metarhizium anisopliae</i> sensu lato 7927 7928 7930 <i>Metarhizium pingshaense</i> 7929	<i>Nasutitermes exitiosus</i> Australia <i>Metarhizium anisopliae</i> sensu lato 8060 8061 8068 8069 8070 8071 8075 8080 8082 8083 8084 8085 8086 8090 8091 8097 8100 8229 8230 8570
Solomon Islands	<i>Kalotermes</i> sp. Australia <i>Metarhizium robertsii</i> 7413	Lepidoptera
<i>Metarhizium flavoviride</i> var. <i>minus</i> 1763 1764 1765 1766 1767 1768 1769 1770 1771 1772 1773	<i>Neotermes</i> sp. Australia <i>Metarhizium anisopliae</i> sensu lato 8731	Brazil, Goiás <i>Nomuraea rileyi</i> 936
<i>Sogatella furcifera</i> Indonesia, Sulawesi Selatan, Celebes <i>Nomuraea rileyi</i> 558	Isoptera: Mastotermitidae	Indonesia, Jawa Barat, Java <i>Metarhizium anisopliae</i> sensu lato 2424
Homoptera: Diaspididae	<i>Mastotermes</i> sp. <i>Metarhizium anisopliae</i> sensu lato 7506	Laboratory manipulation <i>Metarhizium anisopliae</i> sensu lato 1094
<i>Fiorinia externa</i> USA, Connecticut <i>Metarhiziosis microspora</i> 8676	<i>Mastotermes darwiniensis</i> Australia <i>Metarhizium anisopliae</i> sensu lato 8581 8584 8585 8587 8588 8589 <i>Metarhizium anisopliae</i> sensu stricto 7430	PR China <i>Metarhizium guizhouense</i> 6238
USA, Massachusetts <i>Metarhiziosis microspora</i> 8984 8985	Isoptera: Rhinotermitidae	Russian Federation <i>Metarhizium anisopliae</i> sensu lato 9541
USA, New York <i>Metarhiziosis microspora</i> 8986 8987 8988	<i>Coptotermes</i> sp. Australia <i>Metarhizium anisopliae</i> sensu lato 8063 8089 8092 8093	Solomon Islands <i>Nomuraea rileyi</i> 1879 1893
Homoptera: Pseudococcidae	<i>Coptotermes acinaciformis</i> Australia <i>Metarhizium anisopliae</i> sensu lato 8064 8081 8087 8088	<i>Galactica</i> sp. Brazil, Distrito Federal <i>Metarhizium pingshaense</i> 552
<i>Paracoccus marginatus</i> India <i>Metarhizium anisopliae</i> sensu lato 9612 9613	<i>Coptotermes formosanus</i> USA, Hawaii <i>Metarhizium brunneum</i> 3045	Lepidoptera: Bombycidae
Hymenoptera: Encyrtidae	<i>USA, Louisiana</i> <i>Metarhizium anisopliae</i> sensu lato 6909 6910 6911 8015	<i>Bombyx mori</i> Japan <i>Metarhizium brunneum</i> 988
<i>Anagyrus</i> sp. Mexico <i>Metarhizium anisopliae</i> sensu lato 3146		
Hymenoptera: Formicidae		
<i>Atta</i> sp. Brazil, Goiás <i>Metarhizium anisopliae</i> sensu lato 2510		

Lepidoptera: Bombycidae**Lepidoptera: Pyralidae****Fungus by Host and Location**

<i>Metarhizium majus</i> 1015	6741 6742 6743 6744 6745 6746	Malaysia
PR China	6747 6748 6749 6764 6765 6766	<i>Metarhizium anisopliae</i> var. <i>majus</i>
<i>Metarhizium guizhouense</i> 703	6767 6775 6776 6777 6778 6779	8736
<i>Nomuraea rileyi</i> 711	6780 6782 6783 6784 6786 6787	<i>Metarhizium anisopliae</i> sensu lato
	6874 6878	8735
Lepidoptera: Crambidae	Brazil, Rio Grande do Sul	Philippines
New Zealand	<i>Nomuraea rileyi</i> 2201 2202 2203	<i>Metarhizium pingshaense</i> 2735
<i>Metarhizium anisopliae</i> sensu lato	2204 2205 2207	<i>Spodoptera exigua</i>
3064		Thailand
<i>Metarhizium flavoviride</i> var. <i>nova-zealandicum</i> 8214		<i>Nomuraea rileyi</i> 539 540
Lepidoptera: Hepialidae	<i>Spodoptera frugiperda</i>	
<i>Oncopera alboguttata</i>	Brazil	<i>Nomuraea rileyi</i> 4094
Australia		Brazil, Bahia
<i>Metarhizium anisopliae</i> sensu lato		<i>Nomuraea rileyi</i> 1972
7820 7821 7822 7823		Brazil, Paraná
<i>Oncopera intrucata</i>		<i>Nomuraea rileyi</i> 6735 6768 6769
Australia		6770 6771 6772 6773 6774
<i>Metarhizium anisopliae</i> sensu lato		Mexico
4234		<i>Metarhizium anisopliae</i> sensu lato
<i>Oxycanus</i> sp.		3293
New Zealand		<i>Metarhizium brunneum</i> 3294
<i>Metarhizium brunneum</i> 1187		<i>Nomuraea rileyi</i> 3301
<i>Wiseana</i> sp.		<i>Spodoptera litura</i>
New Zealand		India
<i>Metarhizium anisopliae</i> sensu lato		<i>Nomuraea rileyi</i> 6645
4681		
Lepidoptera: Lasiocampidae		Lepidoptera: Nymphalidae
<i>Malacosoma disstria</i>		<i>Chlosyne lacinia saundersii</i>
USA, New York		Brazil, Paraná
<i>Metarhizium anisopliae</i> sensu lato		<i>Metarhizium anisopliae</i> sensu lato
6167		1059
Lepidoptera: Lymantriidae		<i>Metarhizium robertsii</i> 1057
<i>Lymantria</i> sp.		
Philippines		Lepidoptera: Olethreutidae
<i>Nomuraea rileyi</i> 481 482 483		<i>Carpocapsa pomonella</i>
Lepidoptera: Lyonetiidae		Austria
<i>Leucoptera scitella</i>		<i>Metarhizium brunneum</i> 1095
Italy		
<i>Metarhizium brunneum</i> 1116		Lepidoptera: Plutellidae
Lepidoptera: Noctuidae		<i>Plutella xylostella</i>
Brazil, São Paulo		Romania
<i>Nomuraea rileyi</i> 6875		<i>Metarhizium robertsii</i> 5873
Canada		USA, New York
<i>Metarhizium guizhouense</i> 2140		<i>Metarhizium anisopliae</i> sensu lato
Russian Federation		4522
<i>Nomuraea rileyi</i> 9489 9490		
USA, Mississippi		Lepidoptera: Pyralidae
<i>Nomuraea rileyi</i> 135		<i>Cnaphalocrocis medinalis</i>
Alabama <i>argillacea</i>		Philippines
Argentina		<i>Nomuraea rileyi</i> 1761 2174
<i>Nomuraea rileyi</i> 7148		<i>Diatraea saccharalis</i>
<i>Anticarsia gemmatalis</i>		Mexico
Argentina		<i>Metarhizium anisopliae</i> sensu lato
<i>Nomuraea rileyi</i> 2013 2465 2466		3290 3291 3292
5206 5207 5208 5209 5210 5211		<i>Eoreuma loftini</i>
5212 6877 7052 7053 7054 7055		USA, Texas
7056 7149 7150 7151 7479 7480		<i>Metarhizium anisopliae</i> sensu
7481 7482 7484 7778 7779 7780		stricto 5471
Brazil, Pará		<i>Galleria mellonella</i>
<i>Nomuraea rileyi</i> 1950		Australia
Brazil, Paraná		<i>Metarhizium anisopliae</i> sensu lato
<i>Nomuraea rileyi</i> 3940 6731 6732		8560
6734 6736 6737 6738 6739 6740		Canada, Alberta
		<i>Metarhizium anisopliae</i> sensu lato
		8212

Fungus by Host and Location

Lepidoptera: Pyralidae
Thysanoptera: Thripidae

Canada, Ontario	PR China	Orthoptera: Acrididae: Cyrtacanthacridinae
<i>Metarhizium anisopliae</i> sensu lato	<i>Metarhizium anisopliae</i> sensu lato	<i>Kraussaria angulifera</i>
8680 8681 8682 8683 8684 8685	6237	Benin
8686 8687 8688 8689 8690 8691		<i>Metarhizium anisopliae</i> var.
8692		<i>acridum</i> 3614
Mexico		<i>Metarhizium acridum</i> 3612
<i>Metarhizium anisopliae</i> sensu lato		Senegal
7612 7613 7614 7615		<i>Metarhizium acridum</i> 6421
Norway		Orthoptera: Catantopidae
<i>Metarhizium anisopliae</i> sensu lato		<i>Calliptamus italicus</i>
5369 5513 5514 5515 5516 5517		Republic of Georgia
5518 5519 5521 5524 5525 5526		<i>Metarhizium anisopliae</i> sensu lato
6475 7014 7015 7016 7017 7018		8696 8698 8701 8702
7019 7020 7021 7022 7023 7024		<i>Metarhizium</i> sp. 8699
7025 7026 7569 7570 7571 7572		
7573		
<i>Metarhizium brunneum</i> 6474		Orthoptera: Gryllidae
<i>Metarhizium robertsii</i> 6476		<i>Ornebius kanetataki</i>
Portugal		Japan
<i>Metarhizium anisopliae</i> sensu lato		<i>Metarhizium pingshaense</i> 1009
4904 4905 4906		<i>Teleogryllus commodus</i>
<i>Metarhizium robertsii</i> 4903		<i>Metarhizium anisopliae</i> sensu lato
Turkey		8841 8842
<i>Metarhizium anisopliae</i> sensu lato		Australia
8334 8335 8336 8338 8341 8342		<i>Metarhizium anisopliae</i> sensu lato
8344 8346 8347 8350 8351 8352		435 438 440 441 442 445 7489
8353 8432 8433 8434 8435 8436		7490 8760
8437 8438 8440 8443 8445 8446		<i>Metarhizium pingshaense</i> 436 437
8447 8450 8451 8452 8453 8454		439 443 444 446
8660 8662 8665 8669		
<i>Metarhizium brunneum</i> 8671		Orthoptera: Grylloptalpidae
United Kingdom		Commonwealth of Independent States
<i>Metarhizium anisopliae</i> sensu lato		<i>Metarhizium anisopliae</i> sensu
6558		stricto 2786
USA, Alaska		Orthoptera: Pyrgomorphidae
<i>Metarhizium anisopliae</i> sensu lato		<i>Zonocerus elegans</i>
7967		Tanzania
USA, Arizona		<i>Metarhizium acridum</i> 3391
<i>Metarhizium anisopliae</i> sensu lato		<i>Zonocerus variegatus</i>
7847		Benin
USA, North Carolina		<i>Metarhizium anisopliae</i> var.
<i>Metarhizium anisopliae</i> sensu lato		<i>acridum</i> 3606
8769		Guinea-Bissau
USA, Oregon		<i>Metarhizium</i> sp. 3615
<i>Metarhizium</i> sp. 4998 5000 5076		Mali
5077		<i>Metarhizium</i> sp. 3618
USA, Washington		
<i>Metarhizium</i> sp. 4997 4999 5001		Orthoptera: Tettigoniidae
Ostrinia nubilalis		Brazil, Goiás
France		<i>Metarhizium robertsii</i> 727
<i>Metarhizium anisopliae</i> sensu		
stricto 1489		Phasmatodea: Phasmatidae
Pyrausta machaeralis		PR China
India		<i>Metarhizium anisopliae</i> sensu lato
<i>Metarhizium globosum</i> 2596		6236
Lepidoptera: Tortricidae		
Lobesia botrana		Thysanoptera: Thripidae
Italy		<i>Frankliniella occidentalis</i>
<i>Metarhizium brunneum</i> 1112		<i>Metarhizium anisopliae</i> sensu lato
Orthoptera		9591
Brazil, Goiás		<i>Taeniothrips inconsequens</i>
<i>Metarhizium anisopliae</i> sensu lato		USA, Vermont
728		<i>Metarhizium anisopliae</i> sensu lato
		10135 10136 10137

Chordata • Mammalia

Primates: Hominidae

Homo sapiens

Australia

Metarhizium anisopliae sensu lato

8759

Geographical Origin

Argentina

Buenos Aires
Metarhizium anisopliae sensu lato
 7474 7475 7476 8375 8527
Metarhizium brunneum 2974 6120
Nomuraea rileyi 5206 5207 5208 5209
 5210 5211 5212 6877 7052 7053 7054
 7055 7056 7149 7479 7480 7481 7482
 7483 7778

Corrientes
Metarhizium anisopliae sensu lato
 8376 8377
 Santa Fe
Nomuraea rileyi 7150 7151 7484 7779
 7780
 Santiago del Estero
Nomuraea rileyi 2465 7148
 Tucumán
Metarhizium robertsii 3925
Nomuraea rileyi 2013 2466

Australia

Metarhizium anisopliae sensu lato
 438 4125
Metarhizium brunneum 4228
Metarhizium pingshaense 437
 Australian Capital Territory
Metarhizium anisopliae sensu lato
 7863 8059 8502 8560 8561 8562 8608
 8609 8837 8838
Metarhizium majus 473
 Avoca
Metarhizium anisopliae sensu lato
 4299
Metarhizium frigidum 4294
 Macquarie Island
Metarhizium anisopliae sensu lato
 4343 4344 4345 4569 4570
 New South Wales
Metarhizium anisopliae sensu lato
 4242 4568 4574 4777 4778 4779 4780
 7498 7499 7500 7503 7814 7820 7821
 7822 7823 7862 8060 8061 8062 8063
 8064 8067 8068 8069 8070 8071 8072
 8073 8074 8075 8080 8081 8082 8083
 8084 8085 8086 8087 8088 8089 8090
 8091 8092 8093 8094 8095 8096 8097
 8229 8230 8231 8232 8233 8234 8235
 8236 8492 8495 8503 8504 8505 8506
 8507 8508 8509 8510 8511 8512 8513
 8514 8515 8516 8517 8518 8531 8532
 8533 8534 8535 8536 8537 8538 8539
 8540 8541 8542 8575 8759 8764 8765
 8766 8767 8829 8844
Metarhizium anisopliae sensu stricto
 7432
Metarhizium brunneum 472
Metarhizium flavoviride 8758
Metarhizium frigidum 7436 7437 7438
 7439 7440 7441 7442 7443 7444 7445
 7446 7447 7448
Metarhizium guizhouense 4588 7502
Metarhizium majus 4566 4601
Metarhizium pingshaense 7414 7415
 7416
Metarhizium robertsii 4241 4621 7413
 7501

Argentina

Metarhizium sp. 7495 8851 8852 8855
 8856 8857
Nomuraea anemonoides 2467
 Northern Territory
Metarhizium anisopliae sensu lato
 8581 8584 8585 8587 8588 8589 8590
 8591 8745 8746 8747 8768
Metarhizium anisopliae sensu stricto
 7430
 Queensland
Metarhizium anisopliae var. *acridum*
 7522 7970 8359
Metarhizium acridum 324 4605
Metarhizium anisopliae var. *lepidiotae*
 7453 8732
Metarhizium anisopliae sensu lato
 7411 7451 7452 7496 7504 7816 7817
 7818 7819 7824 7825 7826 7827 7828
 7829 7830 7831 7832 7833 7834 7835
 7836 7837 7838 7839 7840 7841 7842
 7843 7844 7846 7854 7855 7856 7857
 7858 7859 7860 7861 7864 7865 7867
 7868 7892 7893 7894 7895 7896 7897
 7898 7899 7900 7901 7902 7903 7904
 7905 7906 7907 7908 7909 7910 7911
 7912 7913 7914 7915 7916 7917 7918
 7919 7920 7926 7931 8496 8497 8500
 8558 8559 8563 8564 8565 8566 8567
 8577 8582 8583 8586 8592 8610 8615
 8616 8617 8618 8619 8620 8621 8622
 8731 8733 8734 8744 8754 8755 8761
 8762 8823 8824 8828 8833 8834 8839
 8845 8847 8850 10469
Metarhizium anisopliae sensu stricto
 7418 7419 7423 7426 7427 7428 7450
Metarhizium guizhouense 7420
Metarhizium lepidiotae 7412 7488
Metarhizium majus 7505
Metarhizium pingshaense 7410 7417
 7421 7422 7425 7429
Metarhizium robertsii 7449
Nomuraea rileyi 323 358 380
 South Australia
Metarhizium anisopliae sensu lato
 4132 4133 4139 7845 8570 8571 8572
 8573 8574 8611
Metarhizium brunneum 346 4131
 Tasmania
Metarhizium anisopliae sensu lato
 4134 4137 4138 4141 4151 4155 4156
 4157 4159 4160 4161 4162 4163 4166
 4167 4168 4169 4170 4171 4172 4173
 4174 4175 4176 4177 4178 4180 4181
 4183 4184 4185 4186 4187 4188 4189
 4190 4191 4192 4220 4224 4225 4226
 4229 4230 4232 4234 4235 4236 4244
 4246 4247 4248 4249 4250 4252 4253
 4255 4256 4257 4259 4262 4264 4265
 4266 4267 4268 4269 4270 4275 4278
 4279 4280 4281 4282 4283 4284 4286
 4287 4288 4291 4292 4293 4295 4296
 4298 4306 4307 4308 4309 4310 4311
 4312 4313 4314 4315 4316 4317 4318
 4319 4322 4323 4324 4325 4327 4328
 4329 4330 4331 4332 4346 4347 4348
 4349 4350 4351 4352 4354 4355 4357

Argentina

4560 4562 4563 4565 4567 4573 4576
 4577 4578 4579 4581 4584 4585 4586
 4590 4591 4592 4593 4594 4595 4596
 4599 4600 4602 4603 4606 4608 4609
 4613 4614 4617 4618 4619 4620 4623
 4624 4625 4626 4627 4629 4631 4632
 4633 4634 4635 4636 4637 4638 4639
 4640 4641 4643 4645 4646 4647 4648
 4649 4650 4651 4652 4653 4654 4655
 4657 4661 4663 4664 4665 4668 4669
 4671 4673 4674 4676 4677 4678 4682
 4683 4684 4687 4716 4717 4718 4722
 4723 4724 4725 4726 4731 4732 4733
 4734 4735 4736 4737 4738 4740 4743
 4746 4747 4748 4749 4752 4753 4754
 4757 4758 4759 4760 4761 4762 4763
 4764 4766 4774 8749

Metarhizium brunneum 4152 4158
 4164 4179 4251 4615
Metarhizium flavoviride 4221 4272
 4304

Metarhizium flavoviride var. *flavoviride*■
 4719 4720 4727 4729 4730

Metarhizium flavoviride var. *novazealandicum* 8750

Metarhizium frigidum 4219 4277 4561
 4680 4765

Metarhizium guizhouense 4153 4303
 4321

Metarhizium lepidiotae 4154 4628

Metarhizium robertsii 4227 4739

Metarhizium sp. 4165

Victoria
Metarhizium anisopliae sensu lato
 435 440 441 442 445 7489 7490 7815
 8543 8544 8545 8546 8547 8548 8760
Metarhizium frigidum 4124
Metarhizium pingshaense 436 439 443
 444 446

Western Australia
Metarhizium anisopliae sensu lato
 7869 7870 7871 7872 7873 7874 7875
 7876 7879 7880 7881 7882 7883 7884
 7885 7886 7887 7888 7932 7933 7934
 7935 7936 8100 8101 8102 8549 8550
 8551 8552 8553 8554 8555 8556 8557
 8576 8848 8849
Metarhizium robertsii 7424

Austria
Metarhizium anisopliae sensu lato
 7711
Metarhizium brunneum 1095

Benin
Metarhizium anisopliae var. *acridum*
 3606 3614
Metarhizium acridum 3612
Metarhizium sp. 3613
 Atlantique
Metarhizium acridum 6598

Borgou
Metarhizium acridum 6592
Metarhizium flavoviride var. *minus*
 6593 6594 6595 6596

Ouémé
Metarhizium acridum 6597

Zou	Rio Grande do Sul
	<i>Nomuraea rileyi</i> 2201 2202 2203 2204
	2205 2206 2207
Brazil	São Paulo
	<i>Metarhizium anisopliae</i> sensu lato
	2211 2634
	<i>Metarhizium anisopliae</i> sensu stricto
	7979 7981
	<i>Metarhizium flavoviride</i> 'Type E'
	2948
	<i>Metarhizium robertsii</i> 2560 2561
	<i>Nomuraea rileyi</i> 6875
Amazonas	Burma
	<i>Metarhizium anisopliae</i> sensu stricto
	755
Bahia	<i>Metarhizium anisopliae</i> sensu lato
	7485 8215 8216 8217 8218 8219 8220
	8221 8222 8223 8224 8225 8226 8227
	8228
	<i>Metarhizium brunneum</i> 7433 7434
Distrito Federal	Canada
	<i>Metarhizium anisopliae</i> sensu lato
	2135 2136 2137 2138 2139 8499
	<i>Metarhizium brunneum</i> 1278
	<i>Metarhizium guizhouense</i> 2140
	<i>Metarhizium robertsii</i> 2134
Esírito Santo	Alberta
	<i>Metarhizium anisopliae</i> sensu lato
	8212
	<i>Metarhizium anisopliae</i> sensu lato
	8014
Goiás	British Columbia
	<i>Metarhizium anisopliae</i> sensu lato
	8680 8681 8682 8683 8684 8685 8686
	8687 8688 8689 8690 8691 8692
	<i>Metarhizium brunneum</i> 2042 9608
	<i>Metarhizium flavoviride</i> var. <i>pemphigum</i> 9358
	<i>Metarhizium robertsii</i> 9607
Mato Grosso	Ontario
	<i>Metarhizium anisopliae</i> sensu lato
	8680 8681 8682 8683 8684 8685 8686
	8687 8688 8689 8690 8691 8692
Pará	Colombia
	<i>Metarhizium anisopliae</i> sensu lato
	587
	<i>Metarhizium</i> sp. 3767
Paraná	Caquetá
	<i>Metarhizium anisopliae</i> sensu lato
	6319 6321 6322 6323 6324 6326
	<i>Metarhizium anisopliae</i> sensu stricto
	6317 6318
Pernambuco	Cauca
	<i>Metarhizium anisopliae</i> sensu lato
	589 6356 6457 6468
	<i>Metarhizium robertsii</i> 797
	<i>Metarhizium</i> sp. 798
	<i>Metarhizium anisopliae</i> sensu stricto
	798
	<i>Metarhizium pingshaense</i> 588
	<i>Metarhizium anisopliae</i> sensu lato
	6342 6343 6345 6346 6360
	<i>Metarhizium anisopliae</i> sensu stricto
	6347

Rio Grande do Sul	Commonwealth of Independent States
	Moldova
	<i>Metarhizium anisopliae</i> sensu stricto
	2786
São Paulo	Denmark
	Århus
	<i>Metarhizium brunneum</i> 4020
	Zealand
	<i>Metarhizium anisopliae</i> sensu lato
	5851
Burma	Ecuador
	Galapagos Islands
	<i>Metarhizium flavoviride</i> var. <i>minus</i>
	2023
Canada	Ethiopia
	<i>Metarhizium anisopliae</i> sensu lato
	5628 6698
	<i>Metarhizium anisopliae</i> sensu stricto
	7487
	Northern Shoa
	<i>Metarhizium anisopliae</i> sensu lato
	6670 6671 6672 6673 6674 6675 6677
	6678 6679 6680 6682 6683 6684 6685
	Welo
	<i>Metarhizium anisopliae</i> sensu lato
	6694
	Finland
	Hämeen Lääni
	<i>Metarhizium brunneum</i> 5626
	Uudenmaan Lääni
	<i>Metarhizium anisopliae</i> sensu lato
	5624
	Vaasan Lääni
	<i>Metarhizium brunneum</i> 5625
	France
	<i>Metarhizium anisopliae</i> var. <i>majus</i>
	3145
	<i>Metarhizium anisopliae</i> sensu stricto
	1489
	<i>Metarhizium guizhouense</i> 977
	<i>Metarhizium majus</i> 978
	<i>Nomuraea rileyi</i> 1670 1671
	Finistere
	<i>Metarhizium anisopliae</i> sensu lato
	818
	<i>Metarhizium brunneum</i> 817
	Hérault
	<i>Metarhizium guizhouense</i> 819
	Maine-et-Loire
	<i>Metarhizium brunneum</i> 820
	Morbihan
	<i>Metarhizium flavoviride</i> 2024
	<i>Metarhizium flavoviride</i> var. <i>flavoviride</i>
	1184
	Réunion
	<i>Metarhizium anisopliae</i> sensu lato
	3148

Geographical Origin

Germany
Philippines

Germany

Metarhizium brunneum 5198

Metarhizium robertsii 1910

Kiel-Kitzeberg

Metarhizium flavoviride var. *flavoviride* ■ 2025

Guinea-Bissau

Metarhizium sp. 3615

India

Metarhizium globosum 2596

Metarhizium guizhouense 3603

Metarhizium pingshaense 2231 3210

Nomuraea rileyi 6867

Nomuraea sp. 2413

Andhra Pradesh

Nomuraea rileyi 6645

Tamil Nadu

Metarhizium anisopliae sensu lato
1726 1727 1728 1744 1745 1823 9612
9613

Metarhizium pingshaense 1724 1725
1729

Indonesia

Metarhizium brunneum 2224

Jawa Barat, Java

Metarhizium anisopliae var. *majus*
2151

Metarhizium anisopliae sensu lato
2105 2424

Metarhizium anisopliae sensu stricto
2080 2421

Metarhizium pingshaense 2106

Nomuraea rileyi 2104

Jawa Tengah, Java

Nomuraea rileyi 2345 2390

Sulawesi Selatan, Celebes

Metarhizium anisopliae sensu stricto
2153

Metarhizium brunneum 2210

Metarhizium pingshaense 576

Nomuraea rileyi 558

Sulawesi Utara, Celebes

Metarhizium album 2082

Italy

Emilia-Romagna

Metarhizium brunneum 1112 1116

Metarhizium robertsii 1120

Japan

Metarhizium guizhouense 1092 1093

Hokkaido

Metarhizium pingshaense 4366

Metarhizium sp. 4367 4368 4369 4370
4371 4372 4373 4374 4375

Hokkaido Prefecture

Metarhizium anisopliae sensu lato
4450

Tokyo Prefecture

Metarhizium brunneum 988

Metarhizium majus 1015

Metarhizium pingshaense 1009 1011

Metarhizium robertsii 1046

Nomuraea rileyi 1014 1047

Kenya

Metarhizium anisopliae sensu lato
6700

Laboratory manipulation

Metarhizium anisopliae sensu lato
844 845 846 847 848 849 850 851
852 853 854 855 856 857 858 859
860 861 862 863 864 865 866 867
868 869 870 871 872 873 874 875
889 890 891 892 893 894 895 896
897 898 901 902 903 904 905 906
907 908 909 910 911 912 913 921
922 960 965 966 967 968 1022 1023
1024 1025 1083 1084 1085 1086 1087
1088 1089 1090 1091 1094 1097 1281
1892 3127 3822

Madagascar

Metarhizium anisopliae var. *acridum*
5734

Metarhizium acridum 5735 5736

Malaysia

Metarhizium anisopliae var. *majus*
8736

Metarhizium anisopliae sensu lato
8735

Metarhizium flavoviride 8737

Mali

Metarhizium sp. 3618

Mexico

Metarhizium anisopliae sensu lato
3146 3290 3291 3292 3293 3305 3306
3307 3308

Metarhizium anisopliae sensu stricto
1912

Metarhizium brunneum 3294 3297

Nomuraea rileyi 3301 6880

Chiapas

Metarhizium anisopliae sensu lato
5752

Colima

Metarhizium acridum 5747 5748 5750

Metarhizium anisopliae sensu lato
5746 5749

Metarhizium brunneum 2764 5751

Mexico

Metarhizium robertsii 2469

Tabasco

Metarhizium anisopliae sensu lato
7612 7613 7614 7615

Tamaulipas

Metarhizium brunneum 3295

Nomuraea rileyi 2492

Myanmar

Metarhizium anisopliae sensu lato
8738 8739 8740 8741 8742 8743

Nepal

Parbat District

Metarhizium anisopliae sensu lato
7527 7529

Netherlands

Metarhizium flavoviride 2026

New Zealand

Metarhizium anisopliae sensu stricto
2518

North Island

Metarhizium brunneum 1187

South Island

Metarhizium anisopliae sensu lato
3056 3057 3064 4681

Metarhizium flavoviride var. *nova-
zealandicum* 8214

Metarhizium pingshaense 7435

Niger

Metarhizium acridum 3341 7486

Norway

Metarhizium brunneum 6474

Metarhizium robertsii 6476

Buskerud

Metarhizium anisopliae sensu lato
6475

Nord Trøndelag

Metarhizium anisopliae sensu lato
5518 5519 5520 5521

Nordland

Metarhizium anisopliae sensu lato
5513 5514 5515 5516 5517

Østfold

Metarhizium anisopliae sensu lato
6901

Metarhizium brunneum 6477

Rogaland

Metarhizium anisopliae sensu lato
5554 5555 5556

Sogn og Fjordane

Metarhizium anisopliae sensu lato
7014 7015 7016 7017 7018 7019 7020
7021 7022 7023 7024 7025 7026 7569
7570 7571 7572 7573

Sør Trøndelag

Metarhizium anisopliae sensu lato
5369

Oman

Metarhizium guizhouense 3611

Metarhizium pingshaense 3610

Pakistan

Metarhizium anisopliae sensu lato
3605 3619

Papua New Guinea

Metarhizium anisopliae sensu lato
2156 2163 2165 2166 2167 4630 4773
8593 8612 8613 8614 8748

Metarhizium guizhouense 4604

Metarhizium lepidiotae 4587 4660

Metarhizium pingshaense 2162 3604

Philippines

Metarhizium flavoviride var. *minus*
1546 1547

Abra

Nomuraea rileyi 1762

Benguet

Metarhizium anisopliae sensu lato
2805 2806 3190 3196

Metarhizium anisopliae sensu stricto
3187

<i>Metarhizium brunneum</i> 2742	Republic of China	Switzerland
<i>Metarhizium pingshaense</i> 2735 2809	Taiwan	<i>Metarhizium anisopliae</i> sensu lato 1373 1374 1375 1376 1377
Cagayan		<i>Metarhizium brunneum</i> 1066
<i>Metarhizium album</i> 2081		Graubünden
Laguna		<i>Metarhizium anisopliae</i> sensu lato 7524
<i>Metarhizium album</i> 1942 1943		Uri
<i>Metarhizium pingshaense</i> 3180		<i>Metarhizium anisopliae</i> sensu lato 7532
Leyte		
<i>Metarhizium album</i> 2176 2178 2179		Tanzania
<i>Nomuraea rileyi</i> 2174		<i>Metarhizium acridum</i> 3391
Manila		
<i>Metarhizium album</i> 1840		Tchad
<i>Metarhizium anisopliae</i> sensu lato		<i>Metarhizium sp.</i> 3616 3617
456 457 485 486 487 488 489 543		
1284 1285 1286 1290 1300 1304		Thailand
<i>Metarhizium brunneum</i> 455		<i>Metarhizium acridum</i> 3609
<i>Metarhizium flavoviride</i> var. <i>minus</i>		<i>Metarhizium pingshaense</i> 538
1099 1271 1272 1273 1274 1275 1276		<i>Nomuraea rileyi</i> 539 540
1277 1279 1283 1287 1288 1289 1291		
1292 1293 1294 1295 1296 1297 1301		The Palestinian Authority
1302 1303 1305 1945 2037		<i>Nomuraea rileyi</i> 7791 7792 7793 7794
<i>Metarhizium pingshaense</i> 2043		
<i>Metarhizium sp.</i> 2353		Trinidad and Tobago
<i>Nomuraea rileyi</i> 481 482 483 1761		<i>Metarhizium anisopliae</i> sensu stricto 3621
2395		
Mindanao		Turkey
<i>Nomuraea rileyi</i> 1756 1757 1758 1759		Artvin
1760		<i>Metarhizium anisopliae</i> sensu lato 8347 8350 8351 8352 8353
Palawan		Bayburt
<i>Metarhizium album</i> 1941		<i>Metarhizium anisopliae</i> sensu lato 8665 8669
<i>Metarhizium anisopliae</i> sensu lato		Giresun
1432 1548 2341 2342 2343		<i>Metarhizium anisopliae</i> sensu lato 8443
<i>Metarhizium flavoviride</i> var. <i>minus</i>		Gümüşhane
2339		<i>Metarhizium anisopliae</i> sensu lato 8662
<i>Metarhizium pingshaense</i> 1545		<i>Metarhizium brunneum</i> 8671
Pangasinan		Ordu
<i>Metarhizium anisopliae</i> sensu lato		<i>Metarhizium anisopliae</i> sensu lato 8342 8344 8437 8438 8440 8445
3194		Rize
<i>Metarhizium pingshaense</i> 3193		<i>Metarhizium anisopliae</i> sensu lato 8334 8335 8336 8338 8432 8433 8434
Quezon		8435 8447 8452 8453 8660
<i>Metarhizium majus</i> 1914 1946 2808		Samsun
Poland		<i>Metarhizium anisopliae</i> sensu lato 8341
<i>Metarhizium majus</i> 1858 1859		Trabzon
Portugal		<i>Metarhizium anisopliae</i> sensu lato 8346 8436 8446 8450 8451 8454
Azores		
<i>Metarhizium anisopliae</i> sensu lato		Ukraine
3229 4904 4905 4906 4907 4908 4925		Autonomous Republic of Crimea
4926 4927 4928 4929 4930		<i>Metarhizium anisopliae</i> 9487
<i>Metarhizium brunneum</i> 3864		Kherson Oblast
<i>Metarhizium robertsii</i> 4903 4919 5149		<i>Metarhizium anisopliae</i> 9488
PR China		
<i>Metarhizium pingshaense</i> 712		
Anhui		
<i>Metarhizium anisopliae</i> sensu lato		
6236 6237 8420		
<i>Metarhizium guizhouense</i> 6238		
<i>Nomuraea rileyi</i> 6239		
Guangxi Autonomous Region		
<i>Nomuraea atypicola</i> 9594		
Kwon Tung		
<i>Metarhizium guizhouense</i> 683		
Zhjiang		
<i>Metarhizium guizhouense</i> 703		
<i>Nomuraea rileyi</i> 711		
Spain		
<i>Metarhizium anisopliae</i> sensu lato		
8693		

Geographical Origin

United Kingdom
USA

United Kingdom

- Metarhizium anisopliae* var. *anisopliae* 6550
- Metarhizium anisopliae* sensu lato 6549 6551 6558
- Metarhizium anisopliae* sensu stricto 6546
- England
 - Metarhizium anisopliae* sensu lato 6570 7535 7536 7537 7538
 - Metarhizium flavoviride* var. *pemphigum* 6569 7491

USA

- Metarhizium anisopliae* sensu lato 1903
- Metarhizium robertsii* 3608
- Alaska
 - Metarhizium anisopliae* sensu lato 7967 8365
- Arizona
 - Metarhizium anisopliae* sensu lato 7847 8357 8358 8363 8364 8367
 - Metarhizium* sp. 9636 9641 9643 9651 9652 9765 9766 9767 9965 10086 10107 10116 10119 10120 10121 10322
- California
 - Metarhizium anisopliae* 9354
 - Metarhizium anisopliae* sensu lato 8956 8957 9150 9151 9152 9153 9154 9155 9156 9157 9158 9159 9160 9161 9162 9439
 - Metarhizium robertsii* 1897
- Colorado
 - Metarhizium* sp. 9686 9693 9757 9763 9764 9768 9769 9770 9771 9772 9773 9774 9775 9885 9886 9950 9951 9952 9953 9954 9955 9957 9958 9959 9960 9961 9962 9963 9964 9969 9970 9971 9972 9973 9974 9978 9979 9984 9987 9988 9989 9990 9991 9992 9993 9994 9995 9996 9997 10004 10028 10029 10030 10033 10034 10035 10036 10037 10038 10039 10040 10044 10045 10046 10047 10053 10055 10057 10062 10067 10069 10070 10071 10077 10080 10083 10084 10087 10088 10093 10094 10099 10100 10106 10111 10112 10113 10114 10115 10117 10118 10316 10319 10320
- Connecticut
 - Metarhizium anisopliae* sensu lato 3713 3720 6388 7234 8415 8416 8417 8418 8419
 - Metarhizium brunneum* 6392
 - Metarhiziosp. microspora* 8676
 - Metarhizium robertsii* 3721
- Florida
 - Metarhizium anisopliae* sensu lato 4556
 - Metarhizium anisopliae* sensu stricto 1080
 - Metarhizium pingshaense* 5197
 - Nomuraea rileyi* 6866 6868 6869 6870 6871 6872 6873 6876 6881 6882

Georgia

- Nomuraea atypicola* 7231

Hawaii

- Metarhizium anisopliae* sensu lato 9217 9218
- Metarhizium brunneum* 3045
- Metarhizium pingshaense* 3044
- Metarhizium robertsii* 3043

Idaho

- Metarhizium* sp. 9946 9948 9949 9956 10017 10032 10074 10075 10089 10090 10091 10092 10097 10098 10122 10123 10124 10125 10321

Illinois

- Metarhizium anisopliae* sensu lato 7180

Kansas

- Metarhizium robertsii* 6472
- Metarhizium* sp. 10013 10014 10018 10020

Louisiana

- Metarhizium anisopliae* sensu lato 6909 6910 6911 8015

Maine

- Metarhizium anisopliae* sensu lato 7059

Massachusetts

- Metarhizium anisopliae* sensu lato 6389 9590
- Metarhiziosp. microspora* 8984 8985

Michigan

- Metarhizium anisopliae* sensu lato 8196 8197 8198 8199 8270 8653 8654 8655 8656 8657 8658 8659
- Metarhizium robertsii* 1968

Mississippi

- Metarhizium* sp. 10324
- Nomuraea atypicola* 7130
- Nomuraea rileyi* 135

Missouri

- Nomuraea rileyi* 345 762

Montana

- Metarhizium anisopliae* sensu lato 6930
- Metarhizium* sp. 9748 9754 9880 9981 9982 9983 9999 10050 10051 10054 10103

Nebraska

- Metarhizium* sp. 9637 9658 9659 9660 9662 9663 9664 9665 9666 9667 9668 9669 9670 9671 9672 9673 9674 9675 9676 9677 9678 9679 9680 9681 9682 9683 9684 9685 9687 9689 9690 9691 9692 9694 9695 9697 9698 9700 9706 9708 9709 9710 9711 9712 9713

- 9714 9715 9716 9717 9718 9719 9720 9721 9722 9723 9724 9725 9733 9734 9735 9736 9737 9738 9739 9740 9745 9746 9747 9750 9776 9777 9778 9780

- 9781 9782 9783 9784 9785 9786 9787 9788 9789 9790 9791 9792 9793 9794 9795 9796 9797 9798 9799 9800 9801 9802 9803 9804 9805 9806 9807 9808

- 9809 9810 9811 9812 9813 9814 9815 9816 9818 9819 9820 9821 9822 9823 9824 9825 9826 9839 9849 9850 9851

- 9852 9853 9854 9855 9856 9857 9858 9859 9860 9861 9862 9863 9864 9865 9866 9867 9868 9869 9870 9871 9872 9873 9874 9875 9876 9877 9878 9986 10001 10002 10003 10005 10006 10007 10008 10010 10011 10328 10332 10333 10337 10338 10339

Nevada

- Metarhizium robertsii* 10000
- Metarhizium* sp. 9980 10009 10012 10015 10016 10019 10024 10025 10026 10063 10064 10065 10072 10073 10076 10317

New York

- Metarhizium anisopliae* sensu lato 1280 2548 3330 3331 3332 3333 3334 3335 3336 3337 3338 3339 3340 4522 4819 4820 4821 4822 4823 4824 6167 8248 8249 8323 8324 8325 8326 8327 9372 9373 9374

- Metarhiziosp. microspora* 8986 8987 8988
- Metarhizium robertsii* 1298 1878 2547 3108 3211 4123 8321 8322

North Carolina

- Metarhizium anisopliae* sensu lato 8769

- Metarhizium robertsii* 23

North Dakota

- Metarhizium* sp. 9618 9620 9621 9622 9623 9624 9625 9626 9627 9628 9630 9631 9632 9633 9634 9635 9638 9639 9640 9642 9644 9645 9646 9647 9648 9649 9650 9656 9657 9688 9701 9702 9705 9707 9730 9760 9761 9817 9828 9829 9831 9832 9833 9834 9838 9844 9845 10325 10326 10327 10329 10330 10331 10335 10336 10340 10341 10342 10344 10345

NY

- Metarhizium anisopliae* sensu lato 3827

- Metarhizium brunneum* 3826

Oregon

- Metarhizium anisopliae* sensu lato 7494
- Metarhizium brunneum* 2107
- Metarhizium* sp. 4998 5000 5076 5077 9699 9729 9751 10078 10081 10082 10104 10105 10126 10314

Puerto Rico

- Metarhizium* sp. 7389

South Carolina

- Metarhizium robertsii* 2575

South Dakota

- Metarhizium* sp. 9629 9696 9741 9752 9753 9758 9759 9836 9840 9841 9846 9847 9848 10058 10059 10060 10068 10079 10085 10101 10102 10108 10109 10110 10315 10323 10343

Texas

- Metarhizium anisopliae* sensu lato 5469
- Metarhizium anisopliae* sensu stricto 5471
- Metarhizium brunneum* 3738

Metarhizium sp. 9661 9762 9779 9827
9830 9966 9967 9968 9975 10021
10023 10041 10042 10043 10346

Utah

Metarhizium acridum 6851 6852 6853
6854 6855 6856 6857 6858 6859
Metarhizium anisopliae sensu lato
6756 6757 6758 6759 6760 6761 6762
6763 6829 6830 6831 6832 6833 6834
6835 6836 6837 6838 6839 6840 6849
6850 6860 6861 6862 6863 6989 6990
6991 6992 6993 6994 6995 6996 6997
6998 6999 8366

Metarhizium robertsii 6755 6841 6842
6843 6844 6845 6846 6847 6848 6864
6865

Metarhizium sp. 9617 9653 9654 9655
9835 9837 9879 9947 9976 9977 9985
9998 10022 10056

Metarhizium taiti 6750 6751 6752 6753
6754

Vermont

Metarhizium anisopliae sensu lato
3541 3542 3544 9279 9280 9281 9282
9283 9284 9285 9286 9287 9288 9303
9304 9305 9306 9307 9308 9309 9310
9311 9312 9313 9314 9315 9316 9317
9318 9319 9320 9321 9322 9323 9324
9325 9326 9327 9328 9329 9330 9331
9332 9333 9939 10131 10135 10136
10137

Metarhizium robertsii 3540

Virginia

Metarhizium sp. 9619

Washington

Metarhizium anisopliae sensu lato
3389 7000 7001 7002 7003 7004 7005
7006 7007 7008 7009

Metarhizium robertsii 3388

Metarhizium sp. 4997 4999 5001 5139
9703 9704 9726 9727 9728 9731 9732
9742 9743 9744 9749 10027 10031
10048 10066 10095 10096 10318
10334

Wisconsin

Metarhizium anisopliae sensu lato
794

Wyoming

Metarhizium sp. 9842 9843 10049
10052 10061

Western Samoa

Apia

Metarhizium anisopliae var. *majus*
297 298
Metarhizium anisopliae sensu stricto
2223

Alternate Collections

Ahn, S.B.

- D2-4 *Metarhizium anisopliae* sensu lato 2038
- E2-13 *Metarhizium anisopliae* sensu lato 2039

Al-Aidroos, Karen

- 19-1a5 (EMS mutant) *Metarhizium anisopliae* sensu lato 911
- 19.1 (EMS mutant) *Metarhizium anisopliae* sensu lato 966
- 42.2 (EMS mutant of 5.42) *Metarhizium anisopliae* sensu lato 1025
- 42.2a9 (EMS mutant) *Metarhizium anisopliae* sensu lato 921
- 5.173 (EMS mutant) *Metarhizium anisopliae* sensu lato 909
- 5.281 (mutant) *Metarhizium anisopliae* sensu lato 922
- 5.287 (EMS mutant) *Metarhizium anisopliae* sensu lato 967
- 5.304 (EMS mutant of 5A) *Metarhizium anisopliae* sensu lato 1022
- 5.378 (EMS mutant) *Metarhizium anisopliae* sensu lato 965
- 5A (UV irradiated mutant of 5) *Metarhizium anisopliae* sensu lato 1087
- 5A.1 (EMS mutant of 5A) *Metarhizium anisopliae* sensu lato 1085
- 5A.10 (EMS mutant of 5A) *Metarhizium anisopliae* sensu lato 1086
- 5A.11 (EMS mutant of 5A) *Metarhizium anisopliae* sensu lato 1083
- 5A.12 (EMS mutant of 5A) *Metarhizium anisopliae* sensu lato 1088
- 5A.7 (EMS mutant of 5A) *Metarhizium anisopliae* sensu lato 1084
- D198A *Metarhizium anisopliae* sensu lato 912
- D95A (diploid, recombinant) *Metarhizium anisopliae* sensu lato 913
- D95A Bes 140 (recombinant) *Metarhizium anisopliae* sensu lato 910
- DIII 3A (mutant) *Metarhizium anisopliae* sensu lato 968
- DIII 3B (mutant) *Metarhizium anisopliae* sensu lato 960
- DIII 3B Bes 48 (recombinant) *Metarhizium anisopliae* sensu lato 907
- JIXIV (mutant) *Metarhizium anisopliae* sensu lato 1091
- JIVD (mutant) *Metarhizium anisopliae* sensu lato 1097
- JX1.23A (mutant) *Metarhizium anisopliae* sensu lato 1024
- JX1.23C (mutant) *Metarhizium anisopliae* sensu lato 1023
- JXIV.245 (mutant) *Metarhizium anisopliae* sensu lato 1089
- KIIVA (mutant) *Metarhizium anisopliae* sensu lato 1090
- S7N5 (mutant) *Metarhizium anisopliae* sensu lato 908

Alves, Sergio Batista

- 507 *Metarhizium robertsii* 2561
- SPL-54A *Metarhizium robertsii* 2560

Andrade, C.F.

- IF#1 *Metarhizium anisopliae* sensu lato 3827
- IF#2 *Metarhizium brunneum* 3826

Aoki, Joji

- Met. 1 *Metarhizium brunneum* 988
- Met. 4 *Metarhizium majus* 1015
- Met. 5 *Metarhizium pingshaense* 1009
- Met. 6 *Metarhizium robertsii* 1046
- Met. 8 *Metarhizium pingshaense* 1011
- Nom. 2 *Nomuraea rileyi* 1014
- Nom. 3 *Nomuraea rileyi* 1047

ARSEF

- 1045 *Metarhizium anisopliae* sensu lato 1299
- 1184 *Metarhizium flavoviride* 2024
- 1299 *Metarhizium anisopliae* sensu stricto 1045
- 1452 (deaccessioned) *Metarhizium anisopliae* sensu lato 1989
- 2013 *Nomuraea rileyi* 2466
- 2024 *Metarhizium flavoviride* var. *flavoviride* 1184
- 2153 *Metarhizium anisopliae* sensu lato 3822
- 2225 *Metarhizium brunneum* 2210
- 23 *Metarhizium anisopliae* sensu lato 1097
- 23 *Metarhizium anisopliae* sensu lato 1094
- 23 *Metarhizium anisopliae* sensu lato 1091
- 23 *Metarhizium anisopliae* sensu lato 1090
- 23 *Metarhizium anisopliae* sensu lato 1089
- 23 *Metarhizium anisopliae* sensu lato 1088
- 23 *Metarhizium anisopliae* sensu lato 1087
- 23 *Metarhizium anisopliae* sensu lato 1086
- 23 *Metarhizium anisopliae* sensu lato 1085
- 23 *Metarhizium anisopliae* sensu lato 1084
- 23 *Metarhizium anisopliae* sensu lato 1083
- 23 *Metarhizium anisopliae* sensu lato 1025
- 23 *Metarhizium anisopliae* sensu lato 1024
- 23 *Metarhizium anisopliae* sensu lato 1023
- 23 *Metarhizium anisopliae* sensu lato 1022
- 23 *Metarhizium anisopliae* sensu lato 968
- 23 *Metarhizium anisopliae* sensu lato 967
- 23 *Metarhizium anisopliae* sensu lato 966
- 23 *Metarhizium anisopliae* sensu lato 965
- 23 *Metarhizium anisopliae* sensu lato 922
- 23 *Metarhizium anisopliae* sensu lato 921
- 23 *Metarhizium anisopliae* sensu lato 913
- 23 *Metarhizium anisopliae* sensu lato 912
- 23 *Metarhizium anisopliae* sensu lato 911
- 23 *Metarhizium anisopliae* sensu lato 909
- 2345 *Nomuraea rileyi* 2390
- 2381 (never frozen) *Metarhizium anisopliae* sensu lato 2341
- 2382 (never frozen) *Metarhizium* sp. 2353
- 2383 (never frozen) *Metarhizium anisopliae* sensu lato 2341
- 2384 (never frozen) *Metarhizium anisopliae* sensu lato 2342
- 2385 (never frozen) *Metarhizium anisopliae* sensu lato 2343
- 2390 (never frozen) *Nomuraea rileyi* 2345
- 2466 *Nomuraea rileyi* 2013
- 2547 *Metarhizium robertsii* 4123
- 2575 *Metarhizium robertsii* 3608
- 2627 *Metarhizium anisopliae* sensu stricto 7980
- 324 *Metarhizium anisopliae* var. *acridum* 7522
- 3940 *Nomuraea rileyi* 6734
- 441 *Metarhizium anisopliae* sensu lato 7489
- 442 *Metarhizium anisopliae* sensu lato 7490
- 7453 *Metarhizium lepidiotae* 7488
- 7488 *Metarhizium anisopliae* var. *lepidiotae* 7453
- 888 (deaccessioned) *Metarhizium anisopliae* sensu lato 872
- 8945 *Metarhizium anisopliae* sensu lato 8989
- ?1294 *Metarhizium flavoviride* var. *mimus* 1295
- ?1295 *Metarhizium flavoviride* var. *mimus* 1294
- ?396 *Metarhizium anisopliae* sensu lato 1377
- ?397 *Metarhizium brunneum* 1066

ATCC

200913 *Metarhizium flavoviride* var.
minus 1763
34948 *Nomuraea anemonoides* 2467
60335 *Metarhizium anisopliae* sensu lato
925
60336 *Metarhizium anisopliae* sensu
stricto 1894
MYA-3093 *Metarhizium robertsii* 2575

Baloch, Lori

C86 *Nomuraea rileyi* 2205

Banu, J. Gulsar

2 *Metarhizium anisopliae* sensu lato
9612
3 *Metarhizium anisopliae* sensu lato
9613

Barakat, Radwan

N.R. 17 *Nomuraea rileyi* 7793
N.R. 18 *Nomuraea rileyi* 7794
N.R. 3 *Nomuraea rileyi* 7791
N.R. 5 *Nomuraea rileyi* 7792

Barrión, G.

Nr-BS *Nomuraea rileyi* 1762

Barron, George L.

10277 *Metarhizium brunneum* 2042

Bellotti, Anthony

9241 *Metarhizium* sp. 3767

Bernal, M.C. Hugo Cesar Arredondo

MaPL14 *Metarhizium acridum* 5747
MaPL32 *Metarhizium acridum* 5748
MaPL35 *Metarhizium anisopliae* sensu
lato 5749
MaPL39 *Metarhizium acridum* 5750
MaPL40 *Metarhizium brunneum* 5751
MaPL41 *Metarhizium anisopliae* sensu
lato 5752
MaPL6 *Metarhizium anisopliae* sensu
lato 5746

Bidochka, Michael J.

43A 2i *Metarhizium anisopliae* sensu
lato 8680
56B 1iv *Metarhizium anisopliae* sensu
lato 8681
FRB2 1iv *Metarhizium anisopliae* sensu
lato 8682
GUB2 1iv *Metarhizium anisopliae* sensu
lato 8683
HKB1 1b *Metarhizium anisopliae* sensu
lato 8684
MAA1 2ii *Metarhizium anisopliae* sensu
lato 8685
ORB1 1ii *Metarhizium anisopliae* sensu
lato 8686
PHA1 2i *Metarhizium anisopliae* sensu
lato 8687
ROA1 1b *Metarhizium anisopliae* sensu
lato 8688
ROA2 2a *Metarhizium anisopliae* sensu
lato 8689
SCB2 2i *Metarhizium anisopliae* sensu
lato 8690

SHB1 2i *Metarhizium anisopliae* sensu
lato 8691
TIB2 1iii *Metarhizium anisopliae* sensu
lato 8692

Booth, Steve R.

Dibkey *Metarhizium* sp. 5139
Gant *Metarhizium* sp. 4998
Johnson *Metarhizium* sp. 5001
McMahon *Metarhizium* sp. 5077
Quinby; MSP *Metarhizium* sp. 4999
Scherer *Metarhizium* sp. 5000
Waara *Metarhizium* sp. 4997
Warnock *Metarhizium* sp. 5076

Borisov, Boris A.

B-412 *Nomuraea* sp. 7851

Boucias, Drion G.

1795 *Nomuraea rileyi* 6867
31b *Nomuraea rileyi* 6871
33b *Nomuraea rileyi* 6881
5561 *Nomuraea rileyi* 6873
5762 *Nomuraea rileyi* 6866
6009 *Nomuraea rileyi* 6868
6011 *Nomuraea rileyi* 6870
6026 *Nomuraea rileyi* 6880
8b *Nomuraea rileyi* 6882
94-5a *Nomuraea rileyi* 6869
94-5c *Nomuraea rileyi* 6876
9b *Nomuraea rileyi* 6872
F178 *Nomuraea rileyi* 6874
Nr10 *Nomuraea rileyi* 6875
Nr24 *Nomuraea rileyi* 6878
Nr32 *Nomuraea rileyi* 6879
NrCH6 *Nomuraea rileyi* 6877

Brownbridge, Michael

B-18 *Metarhizium anisopliae* sensu lato
3542
B-2 *Metarhizium robertsii* 3540
B-35 *Metarhizium anisopliae* sensu lato
3544
B-36 *Metarhizium anisopliae* sensu lato
3565
B-5 *Metarhizium anisopliae* sensu lato
3541
CA-1 *Metarhizium anisopliae* sensu lato
9593
CA-132 *Metarhizium anisopliae* sensu
lato 8956
CA-135 *Metarhizium anisopliae* sensu
lato 8957
CA-170 *Metarhizium anisopliae* sensu
lato 9439
CA-171 *Metarhizium anisopliae* 9354
CA-714 *Metarhizium anisopliae* sensu
lato 9150
CA-715 *Metarhizium anisopliae* sensu
lato 9151
CA-716 *Metarhizium anisopliae* sensu
lato 9152
CA-717 *Metarhizium anisopliae* sensu
lato 9154
CA-718 *Metarhizium anisopliae* sensu
lato 9155
CA-719 *Metarhizium anisopliae* sensu
lato 9156

CA-720 *Metarhizium anisopliae* sensu
lato 9157
CA-721 *Metarhizium anisopliae* sensu
lato 9158

CA-722 *Metarhizium anisopliae* sensu
lato 9159
CA-723 *Metarhizium anisopliae* sensu
lato 9160

CA-724 *Metarhizium anisopliae* sensu
lato 9161
CA-725 *Metarhizium anisopliae* sensu
lato 9162

CA-770 *Metarhizium anisopliae* sensu
lato 9153

CABI

351805 *Metarhizium robertsii* 727

Castrillo, Louela A.

A2 soil 1 *Metarhizium anisopliae* sensu
lato 8653
A2 soil 2 *Metarhizium anisopliae* sensu
lato 8654
B1 soil 1 *Metarhizium anisopliae* sensu
lato 8655
L1 soil 1 *Metarhizium anisopliae* sensu
lato 8656
L5 soil 1 *Metarhizium anisopliae* sensu
lato 8657
MI-17 *Metarhizium anisopliae* sensu lato
8196
MI-18 *Metarhizium anisopliae* sensu lato
8197
MI-19 *Metarhizium anisopliae* sensu lato
8198

MI-20 *Metarhizium anisopliae* sensu lato
8199

R3 soil 1 *Metarhizium anisopliae* sensu
lato 8658
R7 soil 1 *Metarhizium anisopliae* sensu
lato 8659
SFMa1 *Metarhizium anisopliae* sensu
lato 8248
SFMa2 *Metarhizium anisopliae* sensu
lato 8249

CBS

125.65 *Metarhizium flavoviride* var.
flavoviride 2025
316.51 *Metarhizium anisopliae* sensu
lato 7494
316.51 *Metarhizium brunneum* 2107
473.73 *Metarhizium flavoviride* 2026
544.81 *Metarhizium flavoviride* var. *mi-*
nus 2023
700.74 *Metarhizium flavoviride* 2024
700.74 *Metarhizium flavoviride* var.
flavoviride 1184

CENARGEN

CG 339 *Metarhizium anisopliae* sensu
lato 3479
CG 858 *Metarhizium anisopliae* sensu
stricto 7981

Alternate Collections

CEP

- 003 *Metarhizium anisopliae* sensu lato
8375
006 *Nomuraea rileyi* 7483
019 *Nomuraea rileyi* 7479
021 *Nomuraea rileyi* 7778
022 *Nomuraea rileyi* 7480
023 *Nomuraea rileyi* 7481
034 *Nomuraea rileyi* 7484
035 *Nomuraea rileyi* 7779
037 *Nomuraea rileyi* 7780
064 *Nomuraea rileyi* 7482
076 *Metarhizium anisopliae* sensu lato
7474
078 *Metarhizium anisopliae* sensu lato
7475
086 *Metarhizium anisopliae* sensu lato
7476
122 *Metarhizium anisopliae* sensu lato
8527
160 *Metarhizium anisopliae* sensu lato
8376
178 *Metarhizium anisopliae* sensu lato
8377

Chandler, David

- HRI 189.83 *Metarhizium anisopliae*
sensu lato 6549
HRI 331.92 *Metarhizium anisopliae* var.
anisopliae 6550
HRI 335.92 *Metarhizium anisopliae*
sensu lato 6551
HRI 36.79 *Metarhizium anisopliae* sensu
stricto 6546
HRI 378.93 *Metarhizium anisopliae*
sensu lato 6558
HRI 391.93 *Metarhizium anisopliae*
sensu lato 6570
HRI 99.82 *Metarhizium flavoviride* var.
pemphigum 6569

Churchill, Alice C.

- ARSEF 2575 SS1 *Metarhizium robertsii*
8321
ARSEF 2575 SS2 *Metarhizium robertsii*
8322
MaNPS1 Ect A-18 *Metarhizium anisopliae* sensu lato 8323
MaNPS1 KO 37-2 *Metarhizium anisopliae* sensu lato 8326
MaNPS1 KO 43-1 *Metarhizium anisopliae* sensu lato 8327
MaNPS1 KO 8-18 *Metarhizium anisopliae* sensu lato 8325
MaNPS1 KO B1-3 *Metarhizium anisopliae* sensu lato 8324

CIAT

- 001 *Metarhizium anisopliae* sensu stricto
6317
042 *Metarhizium anisopliae* sensu lato
6457
053 *Metarhizium anisopliae* sensu lato
6468

CNPAF

- 53 *Metarhizium anisopliae* sensu lato
1989
82-1-6-02 *Metarhizium anisopliae* sensu
lato 725
82-1-6-18 *Nomuraea rileyi* 740
82-12-01 *Metarhizium anisopliae* sensu
lato 1970
82-12-15-01 *Metarhizium anisopliae*
sensu lato 929
82-12-20-02 *Metarhizium anisopliae*
sensu lato 932
82-2-15-02 *Metarhizium anisopliae* sensu
lato 729
82-2-15-03 *Metarhizium anisopliae* sensu
lato 760
82-2-15-04 *Metarhizium robertsii* 724
82-2-2-01 *Metarhizium robertsii* 727
82-2-3-02 *Metarhizium anisopliae* sensu
lato 728
82-4-1-01 *Metarhizium anisopliae* sensu
lato 759
82-4-5-01 *Metarhizium anisopliae* sensu
stricto 755
82-5-4-01 *Metarhizium anisopliae* sensu
lato 782
82-7-23-01 *Metarhizium anisopliae* sensu
lato 808
83-02-18-01 *Nomuraea rileyi* 936
83-03-16L *Metarhizium anisopliae* sensu
lato 954
83-12-27 *Metarhizium pingshaense* 1448
83-2-17-01 *Nomuraea rileyi* 935
83-3-3-03 *Metarhizium anisopliae* sensu
lato 939
83-4-2-7 *Metarhizium anisopliae* sensu
lato 955
84-1-26 *Metarhizium anisopliae* sensu
lato 1449
85-06-14 *Nomuraea rileyi* 1950
85-7-21 *Metarhizium robertsii* 1952
85-7-24-1 *Metarhizium anisopliae* sensu
lato 1958
85-7-24-5 *Nomuraea rileyi* 1972
86-06-02-3 *Metarhizium anisopliae* sensu
lato 2211
86-06-05-7 *Metarhizium anisopliae* sensu
lato 2214
86-06-05-8 *Metarhizium anisopliae* sensu
lato 2213
86-06-05-9 *Metarhizium anisopliae* sensu
lato 2212
88-5-6B *Metarhizium anisopliae* sensu
lato 2635
D4 *Metarhizium anisopliae* sensu lato
2634
PL-43 *Metarhizium anisopliae* sensu
stricto 7980
Pl-43 *Metarhizium anisopliae* sensu
stricto 2627
Pl-88 *Metarhizium anisopliae* sensu lato
2628

CNPS

- 19 *Metarhizium anisopliae* sensu lato
1055
25 *Metarhizium anisopliae* sensu lato
1056
30A *Metarhizium robertsii* 1057
39C *Metarhizium anisopliae* sensu lato
1059

Cortez Madrigal, Hipolito

- MaA1 *Metarhizium anisopliae* sensu lato
7612
MaA2 *Metarhizium anisopliae* sensu lato
7613
MaA3 *Metarhizium anisopliae* sensu lato
7614
MaA4 *Metarhizium anisopliae* sensu lato
7615

CP

- 100 *Metarhizium anisopliae* sensu lato
955
12 *Nomuraea rileyi* 740
122 *Metarhizium pingshaense* 1448
123 *Metarhizium anisopliae* sensu lato
1449
126 *Metarhizium anisopliae* sensu lato
1989
170 *Metarhizium anisopliae* sensu lato
1970
171 *Metarhizium anisopliae* sensu lato
1882
172 *Metarhizium anisopliae* sensu lato
1883
174 *Metarhizium anisopliae* sensu lato
1885
175 *Nomuraea rileyi* 1950
177 *Metarhizium robertsii* 1952
184 *Metarhizium anisopliae* sensu lato
1958
192 *Nomuraea rileyi* 1972
194 *Metarhizium anisopliae* sensu lato
2076
195 *Metarhizium anisopliae* sensu lato
2077
207 *Metarhizium anisopliae* sensu lato
2211
208 *Metarhizium anisopliae* sensu lato
2212
209 *Metarhizium anisopliae* sensu lato
2213
21 *Metarhizium robertsii* 727
210 *Metarhizium anisopliae* sensu lato
2214
218 *Metarhizium anisopliae* sensu lato
2510
22 *Metarhizium anisopliae* sensu lato
728
224 *Metarhizium anisopliae* sensu stricto
2518
225 *Metarhizium anisopliae* sensu lato
2521
226 *Metarhizium anisopliae* sensu stricto
2517
232 *Metarhizium robertsii* 2560
233 *Metarhizium robertsii* 2561

236A *Metarhizium anisopliae* sensu lato
2513
236B *Metarhizium robertsii* 2514
24 *Metarhizium anisopliae* sensu lato
729
242 *Metarhizium anisopliae* sensu stricto
2627
243 *Metarhizium anisopliae* sensu lato
2628
25 *Metarhizium robertsii* 724
251 *Metarhizium anisopliae* sensu lato
2634
253 *Metarhizium anisopliae* sensu lato
2635
271 *Metarhizium flavoviride* 'Type E'
2948
272 *Metarhizium anisopliae* sensu lato
2941
277 *Metarhizium anisopliae* sensu lato
2949
285 *Metarhizium anisopliae* sensu lato
2951
31 *Metarhizium anisopliae* sensu lato
760
37 *Metarhizium anisopliae* sensu lato
759
39 *Metarhizium anisopliae* sensu stricto
755
52 *Metarhizium anisopliae* sensu lato
782
62 *Metarhizium anisopliae* sensu lato
808
67 *Metarhizium anisopliae* sensu lato
929
70 *Metarhizium anisopliae* sensu lato
932
74 *Nomuraea rileyi* 935
75 *Nomuraea rileyi* 936
78 *Metarhizium anisopliae* sensu lato
939
8 *Metarhizium anisopliae* sensu lato 725
99 *Metarhizium anisopliae* sensu lato
954

CRI

35-79 *Metarhizium brunneum* 4228

CSIRO

FI 208 *Metarhizium pingshaense* 3610
FI 1033 *Metarhizium guizhouense* 3611
FI 1039 *Metarhizium anisopliae* sensu
lato 3605
FI-0012 *Metarhizium anisopliae* sensu
lato 8492
FI-0014 *Metarhizium anisopliae* sensu
lato 7814
FI-0019 *Metarhizium anisopliae* sensu
lato 8495
FI-0024 *Metarhizium anisopliae* sensu
lato 7845
FI-0025 *Metarhizium anisopliae* sensu
lato 8731
FI-0038 *Metarhizium anisopliae* sensu
lato 7815
FI-0083 *Metarhizium anisopliae* sensu
lato 7816

FI-0086 *Metarhizium anisopliae* sensu
lato 7817
FI-0092 *Metarhizium anisopliae* sensu
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FI-0111 *Metarhizium anisopliae* sensu
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FI-0114 *Metarhizium pingshaense* 7410
FI-0120 *Metarhizium anisopliae* sensu
lato 7820
FI-0121 *Metarhizium anisopliae* sensu
lato 7821
FI-0122 *Metarhizium anisopliae* sensu
lato 7822
FI-0123 *Metarhizium anisopliae* sensu
lato 7823
FI-0126 *Metarhizium anisopliae* sensu
lato 7824
FI-0143 *Metarhizium anisopliae* sensu
lato 7825
FI-0144 *Metarhizium anisopliae* sensu
lato 7826
FI-0147 *Metarhizium anisopliae* var.
lepidiotae 8732
FI-0148 *Metarhizium anisopliae* sensu
lato 7827
FI-0149 *Metarhizium anisopliae* sensu
lato 7846
FI-0150 *Metarhizium anisopliae* sensu
lato 7828
FI-0151 *Metarhizium anisopliae* sensu
lato 7411
FI-0152 *Metarhizium lepidiotae* 7412
FI-0153 *Metarhizium anisopliae* sensu
lato 8733
FI-0154 *Metarhizium anisopliae* sensu
lato 7829
FI-0157 *Metarhizium anisopliae* sensu
lato 7830
FI-0160 *Metarhizium anisopliae* sensu
lato 7831
FI-0163 *Metarhizium robertsii* 7413
FI-0165 *Metarhizium anisopliae* sensu
lato 7832
FI-0177 *Metarhizium anisopliae* sensu
lato 7833
FI-0179 *Metarhizium anisopliae* sensu
lato 7834
FI-0181 *Metarhizium anisopliae* sensu
lato 7835
FI-0182 *Metarhizium anisopliae* sensu
lato 7836
FI-0188 *Metarhizium anisopliae* sensu
lato 7837
FI-0189 *Metarhizium anisopliae* sensu
lato 7838
FI-0190 *Metarhizium anisopliae* sensu
lato 7854
FI-0191 *Metarhizium anisopliae* sensu
lato 7839
FI-0193 *Metarhizium anisopliae* sensu
lato 7855
FI-0194 *Metarhizium anisopliae* sensu
lato 7856
FI-0195 *Metarhizium anisopliae* sensu
lato 7857
FI-0196 *Metarhizium anisopliae* sensu
lato 7840
FI-0197 *Metarhizium anisopliae* sensu
lato 7841
FI-0199 *Metarhizium anisopliae* sensu
lato 7858
FI-0200 *Metarhizium anisopliae* sensu
lato 7859
FI-0202 *Metarhizium anisopliae* sensu
lato 7861
FI-0203 *Metarhizium pingshaense* 7414
FI-0205 *Metarhizium anisopliae* sensu
lato 7842
FI-0206 *Metarhizium pingshaense* 7415
FI-0208 *Metarhizium pingshaense* 7416
FI-0209 *Metarhizium anisopliae* sensu
lato 7862
FI-0211 *Metarhizium anisopliae* sensu
lato 7863
FI-0214 *Metarhizium anisopliae* sensu
lato 7864
FI-0218 *Metarhizium anisopliae* sensu
lato 7865
FI-0220 *Metarhizium anisopliae* sensu
lato 7866
FI-0221 *Metarhizium anisopliae* sensu
lato 7867
FI-0223 *Metarhizium anisopliae* sensu
lato 7868
FI-0266 *Metarhizium anisopliae* sensu
lato 7869
FI-0267 *Metarhizium anisopliae* sensu
lato 7870
FI-0268 *Metarhizium anisopliae* sensu
lato 7871
FI-0269 *Metarhizium anisopliae* sensu
lato 7872
FI-0270 *Metarhizium anisopliae* sensu
lato 7873
FI-0273 *Metarhizium anisopliae* sensu
lato 7879
FI-0274 *Metarhizium anisopliae* sensu
lato 7874
FI-0275 *Metarhizium anisopliae* sensu
lato 7875
FI-0276 *Metarhizium anisopliae* sensu
lato 7876
FI-0280 *Metarhizium anisopliae* sensu
lato 7880
FI-0282 *Metarhizium anisopliae* sensu
lato 7881
FI-0283 *Metarhizium anisopliae* sensu
lato 7882
FI-0284 *Metarhizium anisopliae* sensu
lato 7883
FI-0287 *Metarhizium anisopliae* sensu
lato 7884
FI-0289 *Metarhizium anisopliae* sensu
lato 7885
FI-0290 *Metarhizium anisopliae* sensu
lato 7886
FI-0291 *Metarhizium anisopliae* sensu
lato 7887
FI-0292 *Metarhizium anisopliae* sensu
lato 7888
FI-0295 *Metarhizium pingshaense* 7417

- FI-0298 *Metarhizium anisopliae* sensu lato 7892
- FI-0299 *Metarhizium anisopliae* sensu lato 7893
- FI-0300 *Metarhizium anisopliae* sensu lato 7894
- FI-0301 *Metarhizium anisopliae* sensu lato 7895
- FI-0302 *Metarhizium anisopliae* sensu lato 7896
- FI-0303 *Metarhizium anisopliae* sensu lato 7897
- FI-0304 *Metarhizium anisopliae* sensu lato 7898
- FI-0305 *Metarhizium anisopliae* sensu lato 7899
- FI-0307 *Metarhizium anisopliae* sensu lato 7900
- FI-0308 *Metarhizium anisopliae* sensu lato 7901
- FI-0309 *Metarhizium anisopliae* sensu lato 7902
- FI-0310 *Metarhizium anisopliae* sensu lato 7903
- FI-0311 *Metarhizium anisopliae* sensu lato 7904
- FI-0312 *Metarhizium anisopliae* sensu lato 7905
- FI-0313 *Metarhizium anisopliae* sensu lato 7906
- FI-0314 *Metarhizium anisopliae* sensu lato 7907
- FI-0315 *Metarhizium anisopliae* sensu lato 7908
- FI-0316 *Metarhizium anisopliae* sensu lato 7909
- FI-0317 *Metarhizium anisopliae* sensu lato 7910
- FI-0318 *Metarhizium anisopliae* sensu lato 7911
- FI-0319 *Metarhizium anisopliae* sensu lato 7912
- FI-0320 *Metarhizium anisopliae* sensu lato 8496
- FI-0321 *Metarhizium anisopliae* sensu lato 7913
- FI-0322 *Metarhizium anisopliae* sensu stricto 7418
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- FI-0330 *Metarhizium pingshaense* 7422
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- FI-0376 *Metarhizium anisopliae* sensu lato 7930
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- FI-0380 *Metarhizium anisopliae* sensu lato 7933
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- FI-0454 *Metarhizium anisopliae* sensu lato 8734
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- FI-0600 *Metarhizium anisopliae* sensu lato 8093
- FI-0601 *Metarhizium anisopliae* sensu lato 8094
- FI-0602 *Metarhizium anisopliae* sensu lato 8095
- FI-0610 *Metarhizium anisopliae* sensu stricto 7432
- FI-0654 *Metarhizium anisopliae* sensu lato 8096
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- FI-0661 *Metarhizium anisopliae* sensu lato 8100
- FI-0662 *Metarhizium anisopliae* sensu lato 8101

FI-0664 <i>Metarhizium anisopliae</i> sensu lato 8102	FI-0756 <i>Metarhizium anisopliae</i> sensu lato 8235	FI-0809 <i>Metarhizium anisopliae</i> sensu lato 8548
FI-0666 <i>Metarhizium anisopliae</i> sensu lato 8103	FI-0757 <i>Metarhizium anisopliae</i> sensu lato 8508	FI-0810 <i>Metarhizium anisopliae</i> sensu lato 8549
FI-0667 <i>Metarhizium anisopliae</i> sensu lato 8104	FI-0758 <i>Metarhizium frigidum</i> 7441	FI-0811 <i>Metarhizium anisopliae</i> sensu lato 8550
FI-0692 <i>Metarhizium brunneum</i> 7433	FI-0759 <i>Metarhizium anisopliae</i> sensu lato 8509	FI-0812 <i>Metarhizium anisopliae</i> sensu lato 8551
FI-0694 <i>Metarhizium brunneum</i> 7434	FI-0761 <i>Metarhizium frigidum</i> 7442	FI-0814 <i>Metarhizium anisopliae</i> sensu lato 8552
FI-0700 <i>Metarhizium pingshaense</i> 7435	FI-0762 <i>Metarhizium anisopliae</i> sensu lato 8510	FI-0815 <i>Metarhizium anisopliae</i> sensu lato 8553
FI-0702 <i>Metarhizium flavoviride</i> var. <i>novazealandicum</i> 8214	FI-0763 <i>Metarhizium anisopliae</i> sensu lato 8511	FI-0816 <i>Metarhizium anisopliae</i> sensu lato 8554
FI-0710 <i>Metarhizium anisopliae</i> sensu lato 8215	FI-0764 <i>Metarhizium frigidum</i> 7443	FI-0817 <i>Metarhizium anisopliae</i> sensu lato 8555
FI-0711 <i>Metarhizium anisopliae</i> sensu lato 8216	FI-0767 <i>Metarhizium anisopliae</i> sensu lato 8512	FI-0818 <i>Metarhizium anisopliae</i> sensu lato 8556
FI-0713 <i>Metarhizium anisopliae</i> sensu lato 8217	FI-0772 <i>Metarhizium anisopliae</i> sensu lato 8513	FI-0819 <i>Metarhizium anisopliae</i> sensu lato 8557
FI-0714 <i>Metarhizium anisopliae</i> sensu lato 8218	FI-0773 <i>Metarhizium anisopliae</i> sensu lato 8514	FI-0821 <i>Metarhizium anisopliae</i> sensu lato 8559
FI-0715 <i>Metarhizium anisopliae</i> sensu lato 8219	FI-0774 <i>Metarhizium anisopliae</i> sensu lato 8515	FI-0860 <i>Metarhizium anisopliae</i> sensu lato 8560
FI-0716 <i>Metarhizium anisopliae</i> sensu lato 8220	FI-0776 <i>Metarhizium frigidum</i> 7444	FI-0861 <i>Metarhizium anisopliae</i> sensu lato 8561
FI-0717 <i>Metarhizium anisopliae</i> sensu lato 8221	FI-0777 <i>Metarhizium frigidum</i> 7445	FI-0862 <i>Metarhizium anisopliae</i> sensu lato 8562
FI-0718 <i>Metarhizium anisopliae</i> sensu lato 8222	FI-0778 <i>Metarhizium anisopliae</i> sensu lato 8516	FI-0868 <i>Metarhizium anisopliae</i> sensu lato 8610
FI-0719 <i>Metarhizium anisopliae</i> sensu lato 8223	FI-0779 <i>Metarhizium anisopliae</i> sensu lato 8517	FI-0870 <i>Metarhizium anisopliae</i> sensu lato 8563
FI-0720 <i>Metarhizium anisopliae</i> sensu lato 8224	FI-0780 <i>Metarhizium anisopliae</i> sensu lato 8518	FI-0871 <i>Metarhizium anisopliae</i> sensu lato 8564
FI-0721 <i>Metarhizium anisopliae</i> sensu lato 8225	FI-0781 <i>Metarhizium anisopliae</i> sensu lato 8531	FI-0872 <i>Metarhizium anisopliae</i> sensu lato 8577
FI-0722 <i>Metarhizium anisopliae</i> sensu lato 8226	FI-0782 <i>Metarhizium anisopliae</i> sensu lato 8532	FI-0873 <i>Metarhizium anisopliae</i> sensu lato 8565
FI-0726 <i>Metarhizium anisopliae</i> sensu lato 7485	FI-0783 <i>Metarhizium frigidum</i> 7446	FI-0875 <i>Metarhizium anisopliae</i> sensu lato 8566
FI-0727 <i>Metarhizium anisopliae</i> sensu lato 8227	FI-0784 <i>Metarhizium anisopliae</i> sensu lato 8533	FI-0877 <i>Metarhizium anisopliae</i> sensu lato 8567
FI-0728 <i>Metarhizium anisopliae</i> sensu lato 8228	FI-0785 <i>Metarhizium frigidum</i> 7447	FI-0881 <i>Metarhizium anisopliae</i> sensu lato 8568
FI-0729 <i>Metarhizium anisopliae</i> sensu lato 8229	FI-0786 <i>Metarhizium anisopliae</i> sensu lato 8534	FI-0882 <i>Metarhizium anisopliae</i> sensu lato 8569
FI-0730 <i>Metarhizium anisopliae</i> sensu lato 8230	FI-0790 <i>Metarhizium anisopliae</i> sensu lato 8535	FI-0885 <i>Metarhizium anisopliae</i> sensu lato 8611
FI-0733 <i>Metarhizium frigidum</i> 7436	FI-0791 <i>Metarhizium anisopliae</i> sensu lato 8536	FI-0886 <i>Metarhizium anisopliae</i> sensu lato 8570
FI-0737 <i>Metarhizium frigidum</i> 7437	FI-0792 <i>Metarhizium anisopliae</i> sensu lato 8537	FI-0887 <i>Metarhizium anisopliae</i> sensu lato 8571
FI-0741 <i>Metarhizium anisopliae</i> sensu lato 8503	FI-0793 <i>Metarhizium frigidum</i> 7448	FI-0888 <i>Metarhizium anisopliae</i> sensu lato 8572
FI-0742 <i>Metarhizium anisopliae</i> sensu lato 8575	FI-0794 <i>Metarhizium anisopliae</i> sensu lato 8538	FI-0889 <i>Metarhizium anisopliae</i> sensu lato 8573
FI-0744 <i>Metarhizium anisopliae</i> sensu lato 8232	FI-0795 <i>Metarhizium anisopliae</i> sensu lato 8539	FI-0890 <i>Metarhizium anisopliae</i> sensu lato 8574
FI-0746 <i>Metarhizium frigidum</i> 7438	FI-0796 <i>Metarhizium anisopliae</i> sensu lato 8540	FI-0894 <i>Metarhizium anisopliae</i> sensu lato 8576
FI-0747 <i>Metarhizium frigidum</i> 7439	FI-0797 <i>Metarhizium anisopliae</i> sensu lato 8541	FI-0895 <i>Metarhizium anisopliae</i> sensu lato 8605
FI-0748 <i>Metarhizium frigidum</i> 7440	FI-0799 <i>Metarhizium anisopliae</i> sensu lato 8542	FI-0895 <i>Metarhizium anisopliae</i> sensu lato 8604
FI-0749 <i>Metarhizium anisopliae</i> sensu lato 8233	FI-0804 <i>Metarhizium anisopliae</i> sensu lato 8543	FI-0895 <i>Metarhizium anisopliae</i> sensu lato 8603
FI-0751 <i>Metarhizium anisopliae</i> sensu lato 8504	FI-0805 <i>Metarhizium anisopliae</i> sensu lato 8544	
FI-0752 <i>Metarhizium anisopliae</i> sensu lato 8505	FI-0806 <i>Metarhizium anisopliae</i> sensu lato 8545	
FI-0753 <i>Metarhizium anisopliae</i> sensu lato 8506	FI-0807 <i>Metarhizium anisopliae</i> sensu lato 8546	
FI-0754 <i>Metarhizium anisopliae</i> sensu lato 8507	FI-0808 <i>Metarhizium anisopliae</i> sensu lato 8547	

FI-0896 <i>Metarhizium anisopliae</i> sensu lato 8608	FI-0956 <i>Metarhizium anisopliae</i> sensu lato 8622	FI-1156 <i>Metarhizium anisopliae</i> sensu lato 8759
FI-0897 <i>Metarhizium anisopliae</i> sensu lato 8609	FI-0957 <i>Metarhizium anisopliae</i> sensu lato 8623	FI-1158 <i>Metarhizium anisopliae</i> sensu lato 8760
FI-0900 <i>Metarhizium anisopliae</i> sensu lato 8580	FI-0958 <i>Metarhizium anisopliae</i> sensu lato 8624	FI-1160 <i>Metarhizium anisopliae</i> sensu lato 8761
FI-0902 <i>Metarhizium anisopliae</i> sensu lato 8581	FI-0976 <i>Metarhizium anisopliae</i> sensu stricto 7450	FI-1161 <i>Metarhizium anisopliae</i> sensu lato 8762
FI-0903 <i>Metarhizium anisopliae</i> sensu lato 8582	FI-0985 <i>Metarhizium anisopliae</i> var. <i>acridum</i> 8359	FI-1163 <i>Metarhizium anisopliae</i> sensu lato 8764
FI-0904 <i>Metarhizium anisopliae</i> sensu lato 8583	FI-0987 <i>Metarhizium acridum</i> 7486	FI-1223 <i>Metarhizium anisopliae</i> sensu lato 8823
FI-0905 <i>Metarhizium anisopliae</i> sensu lato 8584	FI-0993 <i>Metarhizium anisopliae</i> sensu lato 7451	FI-1224 <i>Metarhizium anisopliae</i> sensu lato 8824
FI-0906 <i>Metarhizium anisopliae</i> sensu lato 8585	FI-0999 <i>Metarhizium anisopliae</i> sensu lato 8735	FI-1228 <i>Metarhizium anisopliae</i> sensu lato 8828
FI-0910 <i>Metarhizium anisopliae</i> sensu lato 8586	FI-1000 <i>Metarhizium anisopliae</i> var. <i>majus</i> 8736	FI-1240 <i>Metarhizium anisopliae</i> sensu lato 8765
FI-0911 <i>Metarhizium robertsii</i> 7449	FI-1002 <i>Metarhizium flavoviride</i> 8737	FI-1241 <i>Metarhizium anisopliae</i> sensu lato 8766
FI-0912 <i>Metarhizium anisopliae</i> sensu lato 7843	FI-1007 <i>Metarhizium anisopliae</i> sensu lato 8738	FI-1242 <i>Metarhizium anisopliae</i> sensu lato 8829
FI-0913 <i>Metarhizium anisopliae</i> sensu lato 7844	FI-1008 <i>Metarhizium anisopliae</i> sensu lato 8739	FI-1244 <i>Metarhizium anisopliae</i> sensu lato 8893
FI-0914 <i>Metarhizium anisopliae</i> sensu lato 8587	FI-1009 <i>Metarhizium anisopliae</i> sensu lato 8740	FI-1245 <i>Metarhizium anisopliae</i> sensu lato 8830
FI-0915 <i>Metarhizium anisopliae</i> sensu lato 8588	FI-1010 <i>Metarhizium anisopliae</i> sensu lato 8741	FI-1246 <i>Metarhizium anisopliae</i> sensu lato 8831
FI-0916 <i>Metarhizium anisopliae</i> sensu lato 8589	FI-1011 <i>Metarhizium anisopliae</i> sensu lato 8742	FI-1247 <i>Metarhizium anisopliae</i> sensu lato 8767
FI-0918 <i>Metarhizium anisopliae</i> sensu lato 8590	FI-1012 <i>Metarhizium anisopliae</i> sensu lato 8743	FI-1249 <i>Metarhizium anisopliae</i> sensu lato 8832
FI-0919 <i>Metarhizium anisopliae</i> sensu lato 8591	FI-1029 <i>Metarhizium anisopliae</i> sensu stricto 7487	FI-1256 <i>Metarhizium anisopliae</i> sensu lato 8833
FI-0920 <i>Metarhizium anisopliae</i> sensu lato 8592	FI-1040 <i>Metarhizium anisopliae</i> sensu lato 8744	FI-1257 <i>Metarhizium anisopliae</i> sensu lato 8834
FI-0923 <i>Metarhizium anisopliae</i> sensu lato 8614	FI-1041 <i>Metarhizium anisopliae</i> sensu lato 7452	FI-1263 <i>Metarhizium anisopliae</i> sensu lato 8837
FI-0923 <i>Metarhizium anisopliae</i> sensu lato 8613	FI-1042 <i>Metarhizium lepidiotae</i> 7488	FI-1264 <i>Metarhizium anisopliae</i> sensu lato 8838
FI-0923 <i>Metarhizium anisopliae</i> sensu lato 8612	FI-1042 <i>Metarhizium anisopliae</i> var. <i>lepidiotae</i> 7453	FI-1267 <i>Metarhizium anisopliae</i> sensu lato 8839
FI-0924 <i>Metarhizium anisopliae</i> sensu lato 8593	FI-1045 <i>Metarhizium anisopliae</i> sensu lato 10469	FI-1279 <i>Metarhizium anisopliae</i> sensu lato 8841
FI-0926 <i>Metarhizium anisopliae</i> sensu lato 8594	FI-1081 <i>Metarhizium anisopliae</i> sensu lato 8745	FI-1280 <i>Metarhizium anisopliae</i> sensu lato 8842
FI-0928 <i>Metarhizium anisopliae</i> sensu lato 8595	FI-1082 <i>Metarhizium anisopliae</i> sensu lato 8746	FI-1313 <i>Metarhizium anisopliae</i> sensu lato 8844
FI-0929 <i>Metarhizium anisopliae</i> sensu lato 8596	FI-1083 <i>Metarhizium anisopliae</i> sensu lato 8747	FI-1314 <i>Metarhizium anisopliae</i> sensu lato 8845
FI-0930 <i>Metarhizium anisopliae</i> sensu lato 8597	FI-1084 <i>Metarhizium anisopliae</i> sensu lato 8768	FI-1316 <i>Metarhizium anisopliae</i> sensu lato 8847
FI-0947 <i>Metarhizium anisopliae</i> sensu lato 8615	FI-1095 <i>Metarhizium anisopliae</i> sensu lato 7489	FI-1320 <i>Metarhizium anisopliae</i> sensu lato 8848
FI-0948 <i>Metarhizium anisopliae</i> sensu lato 8616	FI-1096 <i>Metarhizium anisopliae</i> sensu lato 7490	FI-1321 <i>Metarhizium anisopliae</i> sensu lato 8849
FI-0950 <i>Metarhizium anisopliae</i> sensu lato 8617	FI-1101 <i>Metarhizium flavoviride</i> var. <i>pemphigum</i> 7491	FI-1323 <i>Metarhizium anisopliae</i> sensu lato 8850
FI-0951 <i>Metarhizium anisopliae</i> sensu lato 8618	FI-1107 <i>Metarhizium anisopliae</i> sensu lato 8748	FI-1342 <i>Metarhizium</i> sp. 8851
FI-0952 <i>Metarhizium anisopliae</i> sensu lato 8619	FI-1123 <i>Metarhizium anisopliae</i> sensu lato 8749	FI-1345 <i>Metarhizium</i> sp. 8852
FI-0953 <i>Metarhizium anisopliae</i> sensu lato 8620	FI-1124 <i>Metarhizium flavoviride</i> var. <i>novazealandicum</i> 8750	FI-1350 <i>Metarhizium anisopliae</i> sensu lato 7492
FI-0954 <i>Metarhizium anisopliae</i> sensu lato 8621	FI-1151 <i>Metarhizium anisopliae</i> sensu lato 8754	FI-1352 <i>Metarhizium</i> sp. 8855
	FI-1152 <i>Metarhizium anisopliae</i> sensu lato 8755	FI-1353 <i>Metarhizium</i> sp. 8856
	FI-1155 <i>Metarhizium flavoviride</i> 8758	FI-1354 <i>Metarhizium</i> sp. 8857
		FI-1358 <i>Metarhizium</i> sp. 7493

FI-1363 <i>Metarhizium anisopliae</i> sensu lato 7494	106 <i>Metarhizium anisopliae</i> sensu lato 4232	163 <i>Metarhizium anisopliae</i> sensu lato 4157
FI-1395 <i>Metarhizium</i> sp. 7495	107 <i>Metarhizium anisopliae</i> sensu lato 4255	164 <i>Metarhizium anisopliae</i> sensu lato 4629
FI-1402 <i>Metarhizium anisopliae</i> sensu lato 7496	108 <i>Metarhizium anisopliae</i> sensu lato 4646	165 <i>Metarhizium anisopliae</i> sensu lato 4296
FI-1408 <i>Metarhizium</i> sp. 7497	11 <i>Metarhizium anisopliae</i> sensu lato 4132	166 <i>Metarhizium brunneum</i> 4158
FI-1410 <i>Metarhizium anisopliae</i> sensu lato 7498	110 <i>Metarhizium anisopliae</i> sensu lato 4627	167 <i>Metarhizium anisopliae</i> sensu lato 4286
FI-1412 <i>Metarhizium anisopliae</i> sensu lato 7499	111 <i>Metarhizium anisopliae</i> sensu lato 4252	169 <i>Metarhizium anisopliae</i> sensu lato 4159
FI-1414 <i>Metarhizium anisopliae</i> sensu lato 7500	113 <i>Metarhizium anisopliae</i> sensu lato 4257	170 <i>Metarhizium anisopliae</i> sensu lato 4160
FI-1416 <i>Metarhizium robertsii</i> 7501	114 <i>Metarhizium anisopliae</i> sensu lato 4246	171 <i>Metarhizium anisopliae</i> sensu lato 4161
FI-1417 <i>Metarhizium guizhouense</i> 7502	116 <i>Metarhizium anisopliae</i> sensu lato 4653	172 <i>Metarhizium anisopliae</i> sensu lato 4270
FI-1418 <i>Metarhizium anisopliae</i> sensu lato 7503	117 <i>Metarhizium anisopliae</i> sensu lato 4608	174 <i>Metarhizium anisopliae</i> sensu lato 4269
FI-1425 <i>Metarhizium anisopliae</i> sensu lato 7504	119 <i>Metarhizium anisopliae</i> sensu lato 4234	175 <i>Metarhizium frigidum</i> 4219
FI-1449 <i>Metarhizium majus</i> 7505	12 <i>Metarhizium anisopliae</i> sensu lato 4133	176 <i>Metarhizium frigidum</i> 4680
FI-1451 <i>Metarhizium anisopliae</i> sensu lato 7506	120 <i>Metarhizium brunneum</i> 4228	177 <i>Metarhizium anisopliae</i> sensu lato 4220
FI-1469 <i>Metarhizium guizhouense</i> 7507	122 <i>Metarhizium anisopliae</i> sensu lato 4567	178 <i>Metarhizium anisopliae</i> sensu lato 4259
FI-201 <i>Metarhizium anisopliae</i> sensu lato 7860	123 <i>Metarhizium anisopliae</i> sensu lato 4718	179 <i>Metarhizium anisopliae</i> sensu lato 4229
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FI48 <i>Metarhizium acridum</i> 324	147 <i>Metarhizium brunneum</i> 4152	187 <i>Metarhizium anisopliae</i> sensu lato 4244
FI53 <i>Metarhizium anisopliae</i> sensu lato 435	148 <i>Metarhizium guizhouense</i> 4153	188 <i>Metarhizium anisopliae</i> sensu lato 4162
FI54 <i>Metarhizium anisopliae</i> sensu lato 438	151 <i>Metarhizium lepidiotae</i> 4154	19 <i>Metarhizium anisopliae</i> sensu lato 4137
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- KTU-6 *Metarhizium anisopliae* sensu
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- KTU-60 *Metarhizium brunneum* 8671
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- Devi, K. Uma**
GIV *Nomuraea rileyi* 6645
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- Dubois, Thomas L.**
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- VD 5 rep b *Metarhizium brunneum* 6392
- Earth BioScience, Inc.**
F52 *Metarhizium anisopliae* sensu lato
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- El-kadi, Kamul**
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- Ellwanger, Fernando M.**
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20W-5 *Metarhizium anisopliae* sensu
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1141(29v) *Metarhizium anisopliae* sensu
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- A-10 *Metarhizium anisopliae* sensu lato
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- A-18 (BAMC) *Metarhizium anisopliae*
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- A-4 *Metarhizium anisopliae* sensu stricto
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- A-8(BAMC) *Metarhizium anisopliae*
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- E-6(ESMC) *Metarhizium anisopliae*
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- 1056 *Metarhizium acridum* 9592
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1499 <i>Metarhiziosis microspora</i> 8987	1624 <i>Metarhizium anisopliae</i> sensu lato 9324	222 <i>Metarhizium anisopliae</i> sensu lato 8788
1502 <i>Metarhiziosis microspora</i> 8988	1625 <i>Metarhizium anisopliae</i> sensu lato 9325	223 <i>Metarhizium anisopliae</i> sensu lato 8789
1540 <i>Metarhizium anisopliae</i> sensu lato 10131	1626 <i>Metarhizium anisopliae</i> sensu lato 9326	224 <i>Metarhizium anisopliae</i> sensu lato 8790
1579 <i>Metarhizium anisopliae</i> sensu lato 9279	1627 <i>Metarhizium anisopliae</i> sensu lato 9327	225 <i>Metarhizium anisopliae</i> sensu lato 8791
1580 <i>Metarhizium anisopliae</i> sensu lato 9280	1628 <i>Metarhizium anisopliae</i> sensu lato 9328	227 <i>Metarhizium anisopliae</i> sensu lato 8792
1581 <i>Metarhizium anisopliae</i> sensu lato 9281	1629 <i>Metarhizium anisopliae</i> sensu lato 9329	228 <i>Metarhizium anisopliae</i> sensu lato 8793
1582 <i>Metarhizium anisopliae</i> sensu lato 9282	1630 <i>Metarhizium anisopliae</i> sensu lato 9330	229 <i>Metarhizium anisopliae</i> sensu lato 8794
1583 <i>Metarhizium anisopliae</i> sensu lato 9283	1631 <i>Metarhizium anisopliae</i> sensu lato 9331	230 <i>Metarhizium anisopliae</i> sensu lato 8858
1584 <i>Metarhizium anisopliae</i> sensu lato 9284	1632 <i>Metarhizium anisopliae</i> sensu lato 9332	231 <i>Metarhizium anisopliae</i> sensu lato 8859
1585 <i>Metarhizium anisopliae</i> sensu lato 9285	1633 <i>Metarhizium anisopliae</i> sensu lato 9333	232 <i>Metarhizium anisopliae</i> sensu lato 8947
1586 <i>Metarhizium anisopliae</i> sensu lato 9286	1723 <i>Metarhizium anisopliae</i> sensu lato 9939	233 <i>Metarhizium anisopliae</i> sensu lato 8948
1587 <i>Metarhizium anisopliae</i> sensu lato 9287	1795 <i>Metarhizium anisopliae</i> sensu lato 10135	234 <i>Metarhizium anisopliae</i> sensu lato 8860
1588 <i>Metarhizium anisopliae</i> sensu lato 9288	1796 <i>Metarhizium anisopliae</i> sensu lato 10136	235 <i>Metarhizium anisopliae</i> sensu lato 8861
1596 <i>Metarhizium anisopliae</i> sensu lato 9303	1797 <i>Metarhizium anisopliae</i> sensu lato 10137	236 <i>Metarhizium anisopliae</i> sensu lato 8862
1597 <i>Metarhizium anisopliae</i> sensu lato 9304	194 <i>Metarhizium anisopliae</i> sensu lato 8775	237 <i>Metarhizium anisopliae</i> sensu lato 8863
1598 <i>Metarhizium anisopliae</i> sensu lato 9305	195 <i>Metarhizium anisopliae</i> sensu lato 8776	238 <i>Metarhizium anisopliae</i> sensu lato 8864
1599 <i>Metarhizium anisopliae</i> sensu lato 9306	200 <i>Metarhizium anisopliae</i> sensu lato 8941	239 <i>Metarhizium anisopliae</i> sensu lato 8865
1607 <i>Metarhizium anisopliae</i> sensu lato 9307	201 <i>Metarhizium anisopliae</i> sensu lato 8942	240 <i>Metarhizium anisopliae</i> sensu lato 8866
1608 <i>Metarhizium anisopliae</i> sensu lato 9308	203 <i>Metarhizium anisopliae</i> sensu lato 8777	241 <i>Metarhizium anisopliae</i> sensu lato 8867
1609 <i>Metarhizium anisopliae</i> sensu lato 9309	204 <i>Metarhizium anisopliae</i> sensu lato 8778	246 <i>Metarhizium anisopliae</i> sensu lato 8894
1610 <i>Metarhizium anisopliae</i> sensu lato 9310	205 <i>Metarhizium anisopliae</i> sensu lato 8779	247 <i>Metarhizium anisopliae</i> sensu lato 8895
1611 <i>Metarhizium anisopliae</i> sensu lato 9311	206 <i>Metarhizium anisopliae</i> sensu lato 8780	248 <i>Metarhizium anisopliae</i> sensu lato 8896
1612 <i>Metarhizium anisopliae</i> sensu lato 9312	207 <i>Metarhizium anisopliae</i> sensu lato 8943	249 <i>Metarhizium anisopliae</i> sensu lato 8897
1613 <i>Metarhizium anisopliae</i> sensu lato 9313	209 <i>Metarhizium anisopliae</i> sensu lato 8781	251 <i>Metarhizium anisopliae</i> sensu lato 8898
1614 <i>Metarhizium anisopliae</i> sensu lato 9314	210 <i>Metarhizium anisopliae</i> sensu lato 8944	254 <i>Metarhizium anisopliae</i> sensu lato 8899
1615 <i>Metarhizium anisopliae</i> sensu lato 9315	211 <i>Metarhizium anisopliae</i> sensu lato 8782	256 <i>Metarhizium anisopliae</i> sensu lato 8900
1616 <i>Metarhizium anisopliae</i> sensu lato 9316	212 <i>Metarhizium anisopliae</i> sensu lato 8945	258 <i>Metarhizium anisopliae</i> sensu lato 8901
1617 <i>Metarhizium anisopliae</i> sensu lato 9317	215 <i>Metarhizium anisopliae</i> sensu lato 8783	259 <i>Metarhizium anisopliae</i> sensu lato 8902
1618 <i>Metarhizium anisopliae</i> sensu lato 9318	216 <i>Metarhizium anisopliae</i> sensu lato 8784	260 <i>Metarhizium anisopliae</i> sensu lato 8949
1619 <i>Metarhizium anisopliae</i> sensu lato 9319	217 <i>Metarhizium anisopliae</i> sensu lato 8946	265 <i>Metarhizium anisopliae</i> sensu lato 8903
1620 <i>Metarhizium anisopliae</i> sensu lato 9320	218 <i>Metarhizium anisopliae</i> sensu lato 8785	270 <i>Metarhizium anisopliae</i> sensu lato 8904
1621 <i>Metarhizium anisopliae</i> sensu lato 9321	220 <i>Metarhizium anisopliae</i> sensu lato 8786	273 <i>Metarhizium anisopliae</i> sensu lato 8905
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Holdom, David G.

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stricto 2421

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AVRDC 0611B <i>Metarhizium anisopliae</i> sensu lato 8909	426.0 <i>Metarhizium anisopliae</i> sensu lato 913	F071 <i>Metarhizium anisopliae</i> sensu lato 4623
AVRDC 0612B <i>Metarhizium anisopliae</i> sensu lato 8910	427.0 <i>Metarhizium pingshaense</i> 576	F073 <i>Metarhizium anisopliae</i> sensu lato 4253
AVRDC 0614B <i>Metarhizium anisopliae</i> sensu lato 8911	429.0 <i>Metarhizium majus</i> 473	F074 <i>Metarhizium anisopliae</i> sensu lato 4717
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- B14m *Metarhizium anisopliae* sensu lato
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- B16m *Metarhizium majus* 2808
- B17b *Metarhizium pingshaense* 2809
- B34 *Metarhizium pingshaense* 3180
- B43a *Metarhizium anisopliae* sensu
stricto 3187
- B44a *Metarhizium anisopliae* sensu lato
3190
- B45b *Metarhizium pingshaense* 3193
- B47a *Metarhizium anisopliae* sensu lato
3194
- B48 *Metarhizium anisopliae* sensu lato
3196
- B4T8 *Metarhizium brunneum* 2742
- Ma1 *Metarhizium pingshaense* 2735
- Roberts, Donald W.**
- (i)I *Metarhizium flavoviride* var. *minus*
1288
- 090485-3 *Nomuraea rileyi* 1879
- 102381-9 *Metarhizium guizhouense* 683
- 103a *Metarhizium anisopliae* sensu lato
1903
- 291001 *Metarhizium anisopliae* sensu
lato 1728
- 291013 *Metarhizium anisopliae* sensu
lato 1726
- 291014 *Metarhizium anisopliae* sensu
lato 1744
- 291015 *Metarhizium anisopliae* sensu
lato 1727
- 291016 *Metarhizium anisopliae* sensu
lato 1745
- 291017 *Metarhizium pingshaense* 1725
- 29103 *Metarhizium pingshaense* 1724
- 29103b *Metarhizium anisopliae* sensu
lato 1823
- 2910B *Metarhizium pingshaense* 1729
- 5A *Metarhizium flavoviride* var. *minus*
1302
- 81280 *Metarhizium anisopliae* sensu lato
543
- A1 *Metarhizium flavoviride* var. *minus*
1291
- A10 *Metarhizium flavoviride* var. *minus*
1303
- A8 *Metarhizium flavoviride* var. *minus*
1099
- A9 *Metarhizium flavoviride* var. *minus*
1297
- BPH-10 *Metarhizium flavoviride* var.
minus 1287
- BPH-11 *Metarhizium anisopliae* sensu
lato 1290
- BPH-12 *Metarhizium anisopliae* sensu
lato 1284
- BPH-13 *Metarhizium anisopliae* sensu
lato 1285
- BPH-3[?] *Metarhizium flavoviride* var.
minus 1295
- BPH-3[?] *Metarhizium flavoviride* var.
minus 1294

BPH-4 <i>Metarhizium anisopliae</i> sensu lato 1286	DWR 1253 <i>Metarhizium</i> sp. 9952	DWR 1421 <i>Metarhizium</i> sp. 10013
BPH-5 <i>Metarhizium flavoviride</i> var. <i>minus</i> 1274	DWR 1254 <i>Metarhizium</i> sp. 9953	DWR 1422 <i>Metarhizium</i> sp. 10014
BPH-6 <i>Metarhizium flavoviride</i> var. <i>minus</i> 1296	DWR 1255 <i>Metarhizium</i> sp. 9954	DWR 144 <i>Metarhizium anisopliae</i> sensu lato 6990
BPH-7 <i>Metarhizium flavoviride</i> var. <i>minus</i> 1289	DWR 1256 <i>Metarhizium</i> sp. 9955	DWR 1446 <i>Metarhizium</i> sp. 10015
BPH-8 <i>Metarhizium flavoviride</i> var. <i>minus</i> 1275	DWR 1280 <i>Metarhizium</i> sp. 9956	DWR 1447 <i>Metarhizium</i> sp. 10016
Bq <i>Metarhizium flavoviride</i> var. <i>minus</i> 1272	DWR 1281 <i>Metarhizium</i> sp. 9957	DWR 1448 <i>Metarhizium</i> sp. 10017
C <i>Metarhizium flavoviride</i> var. <i>minus</i> 1292	DWR 1282 <i>Metarhizium</i> sp. 9958	DWR 1449 <i>Metarhizium</i> sp. 10018
D <i>Metarhizium anisopliae</i> sensu lato 1304	DWR 1283 <i>Metarhizium</i> sp. 9959	DWR 145 <i>Metarhizium anisopliae</i> sensu lato 6991
DWR 170 <i>Metarhizium anisopliae</i> sensu lato 6862	DWR 1284 <i>Metarhizium</i> sp. 9960	DWR 1450 <i>Metarhizium</i> sp. 10019
DWR 04 <i>Metarhizium taii</i> 6750	DWR 1285 <i>Metarhizium</i> sp. 9961	DWR 1451 <i>Metarhizium</i> sp. 10020
DWR 05 <i>Metarhizium taii</i> 6751	DWR 1286 <i>Metarhizium</i> sp. 9962	DWR 146 <i>Metarhizium anisopliae</i> sensu lato 6763
DWR 06 <i>Metarhizium taii</i> 6752	DWR 1287 <i>Metarhizium</i> sp. 9963	DWR 1468 <i>Metarhizium</i> sp. 10021
DWR 069 <i>Metarhizium anisopliae</i> sensu lato 6994	DWR 1288 <i>Metarhizium</i> sp. 9964	DWR 1469 <i>Metarhizium</i> sp. 10022
DWR 09 <i>Metarhizium taii</i> 6753	DWR 1289 <i>Metarhizium</i> sp. 9965	DWR 147 <i>Metarhizium anisopliae</i> sensu lato 6992
DWR 10 <i>Metarhizium taii</i> 6754	DWR 1290 <i>Metarhizium</i> sp. 9966	DWR 1470 <i>Metarhizium</i> sp. 10023
DWR 1145 <i>Metarhizium</i> sp. 9852	DWR 1291 <i>Metarhizium</i> sp. 9967	DWR 1471 <i>Metarhizium</i> sp. 10024
DWR 1146 <i>Metarhizium</i> sp. 9853	DWR 1292 <i>Metarhizium</i> sp. 9968	DWR 1472 <i>Metarhizium</i> sp. 10025
DWR 1147 <i>Metarhizium</i> sp. 9854	DWR 1293 <i>Metarhizium</i> sp. 9969	DWR 1473 <i>Metarhizium</i> sp. 10026
DWR 1148 <i>Metarhizium</i> sp. 9855	DWR 1294 <i>Metarhizium</i> sp. 9970	DWR 148 <i>Metarhizium anisopliae</i> sensu lato 6993
DWR 1149 <i>Metarhizium</i> sp. 9856	DWR 1295 <i>Metarhizium</i> sp. 9971	DWR 1489 <i>Metarhizium</i> sp. 10027
DWR 1150 <i>Metarhizium</i> sp. 9857	DWR 1296 <i>Metarhizium</i> sp. 9972	DWR 149 <i>Metarhizium anisopliae</i> sensu lato 6995
DWR 1151 <i>Metarhizium</i> sp. 9858	DWR 1297 <i>Metarhizium</i> sp. 9973	DWR 1490 <i>Metarhizium</i> sp. 10028
DWR 1152 <i>Metarhizium</i> sp. 9859	DWR 1310 <i>Metarhizium</i> sp. 9974	DWR 1491 <i>Metarhizium</i> sp. 10029
DWR 1153 <i>Metarhizium</i> sp. 9860	DWR 1324 <i>Metarhizium</i> sp. 9975	DWR 1506 <i>Metarhizium</i> sp. 10030
DWR 1154 <i>Metarhizium</i> sp. 9861	DWR 1325 <i>Metarhizium</i> sp. 9976	DWR 1507 <i>Metarhizium</i> sp. 10031
DWR 1155 <i>Metarhizium</i> sp. 9862	DWR 1326 <i>Metarhizium</i> sp. 9977	DWR 1516 <i>Metarhizium</i> sp. 10032
DWR 1156 <i>Metarhizium</i> sp. 9863	DWR 1327 <i>Metarhizium</i> sp. 9978	DWR 1517 <i>Metarhizium</i> sp. 10033
DWR 1157 <i>Metarhizium</i> sp. 9864	DWR 1337 <i>Metarhizium</i> sp. 9979	DWR 1518 <i>Metarhizium</i> sp. 10034
DWR 1158 <i>Metarhizium</i> sp. 9865	DWR 1338 <i>Metarhizium</i> sp. 9980	DWR 1519 <i>Metarhizium</i> sp. 10035
DWR 1159 <i>Metarhizium</i> sp. 9866	DWR 1344 <i>Metarhizium</i> sp. 9981	DWR 1520 <i>Metarhizium</i> sp. 10036
DWR 1160 <i>Metarhizium</i> sp. 9867	DWR 1345 <i>Metarhizium</i> sp. 9982	DWR 1527 <i>Metarhizium</i> sp. 10037
DWR 1161 <i>Metarhizium</i> sp. 9868	DWR 1346 <i>Metarhizium</i> sp. 9983	DWR 1528 <i>Metarhizium</i> sp. 10038
DWR 1162 <i>Metarhizium</i> sp. 9869	DWR 1347 <i>Metarhizium</i> sp. 9984	DWR 1540 <i>Metarhizium</i> sp. 10039
DWR 1163 <i>Metarhizium</i> sp. 9870	DWR 1361 <i>Metarhizium</i> sp. 9985	DWR 1541 <i>Metarhizium</i> sp. 10040
DWR 1164 <i>Metarhizium</i> sp. 9871	DWR 1362 <i>Metarhizium</i> sp. 9986	DWR 1542 <i>Metarhizium</i> sp. 10041
DWR 1165 <i>Metarhizium</i> sp. 9872	DWR 137 <i>Metarhizium anisopliae</i> sensu lato 6761	DWR 1543 <i>Metarhizium</i> sp. 10042
DWR 1166 <i>Metarhizium</i> sp. 9873	DWR 1374 <i>Metarhizium</i> sp. 9987	DWR 1544 <i>Metarhizium</i> sp. 10043
DWR 1180 <i>Metarhizium</i> sp. 9874	DWR 1375 <i>Metarhizium</i> sp. 9988	DWR 1545 <i>Metarhizium</i> sp. 10044
DWR 1181 <i>Metarhizium</i> sp. 9875	DWR 1376 <i>Metarhizium</i> sp. 9989	DWR 1546 <i>Metarhizium</i> sp. 10045
DWR 1182 <i>Metarhizium</i> sp. 9876	DWR 1377 <i>Metarhizium</i> sp. 9990	DWR 1547 <i>Metarhizium</i> sp. 10046
DWR 1183 <i>Metarhizium</i> sp. 9877	DWR 1378 <i>Metarhizium</i> sp. 9991	DWR 1548 <i>Metarhizium</i> sp. 10047
DWR 1184 <i>Metarhizium</i> sp. 9878	DWR 1379 <i>Metarhizium</i> sp. 9992	DWR 1553 <i>Metarhizium</i> sp. 10048
DWR 1239 <i>Metarhizium</i> sp. 9879	DWR 138 <i>Metarhizium anisopliae</i> sensu lato 6762	DWR 1554 <i>Metarhizium</i> sp. 10049
DWR 1240 <i>Metarhizium</i> sp. 9880	DWR 1380 <i>Metarhizium</i> sp. 9993	DWR 1555 <i>Metarhizium</i> sp. 10050
DWR 1241 <i>Metarhizium</i> sp. 9881	DWR 1381 <i>Metarhizium</i> sp. 9994	DWR 1556 <i>Metarhizium</i> sp. 10051
DWR 1242 <i>Metarhizium</i> sp. 9882	DWR 1382 <i>Metarhizium</i> sp. 9995	DWR 1557 <i>Metarhizium</i> sp. 10052
DWR 1243 <i>Metarhizium</i> sp. 9883	DWR 1387 <i>Metarhizium</i> sp. 9996	DWR 158 <i>Metarhizium acridum</i> 6851
DWR 1244 <i>Metarhizium</i> sp. 9884	DWR 1395 <i>Metarhizium</i> sp. 9997	DWR 1580 <i>Metarhizium</i> sp. 10053
DWR 1245 <i>Metarhizium</i> sp. 9885	DWR 1399 <i>Metarhizium</i> sp. 9998	DWR 1581 <i>Metarhizium</i> sp. 10054
DWR 1246 <i>Metarhizium</i> sp. 9886	DWR 1408 <i>Metarhizium</i> sp. 9999	DWR 1582 <i>Metarhizium</i> sp. 10055
DWR 1247 <i>Metarhizium</i> sp. 9946	DWR 1409 <i>Metarhizium</i> sp. 10001	DWR 1583 <i>Metarhizium</i> sp. 10056
DWR 1248 <i>Metarhizium</i> sp. 9947	DWR 1410 <i>Metarhizium</i> sp. 10002	DWR 1584 <i>Metarhizium</i> sp. 10057
DWR 1249 <i>Metarhizium</i> sp. 9948	DWR 1411 <i>Metarhizium</i> sp. 10003	DWR 159 <i>Metarhizium acridum</i> 6852
DWR 1250 <i>Metarhizium</i> sp. 9949	DWR 1412 <i>Metarhizium</i> sp. 10004	DWR 1591 <i>Metarhizium</i> sp. 10058
DWR 1251 <i>Metarhizium</i> sp. 9950	DWR 1413 <i>Metarhizium</i> sp. 10005	DWR 1592 <i>Metarhizium</i> sp. 10059
DWR 1252 <i>Metarhizium</i> sp. 9951	DWR 1414 <i>Metarhizium</i> sp. 10006	DWR 160 <i>Metarhizium acridum</i> 6853
	DWR 1415 <i>Metarhizium</i> sp. 10007	DWR 1601 <i>Metarhizium</i> sp. 10060
	DWR 1416 <i>Metarhizium</i> sp. 10008	DWR 1602 <i>Metarhizium</i> sp. 10061
	DWR 1417 <i>Metarhizium</i> sp. 10009	DWR 161 <i>Metarhizium acridum</i> 6854
	DWR 1418 <i>Metarhizium</i> sp. 10010	DWR 1610 <i>Metarhizium</i> sp. 10062
	DWR 1419 <i>Metarhizium</i> sp. 10011	
	DWR 142 <i>Metarhizium anisopliae</i> sensu lato 6989	
	DWR 1420 <i>Metarhizium</i> sp. 10012	

- DWR 1611 *Metarhizium* sp. 10063
 DWR 1612 *Metarhizium* sp. 10064
 DWR 1613 *Metarhizium* sp. 10065
 DWR 1614 *Metarhizium* sp. 10066
 DWR 1615 *Metarhizium* sp. 10067
 DWR 162 *Metarhizium acridum* 6855
 DWR 163 *Metarhizium acridum* 6856
 DWR 164 *Metarhizium acridum* 6857
 DWR 165 *Metarhizium acridum* 6858
 DWR 1652 *Metarhizium* sp. 10068
 DWR 1653 *Metarhizium* sp. 10069
 DWR 1654 *Metarhizium* sp. 10070
 DWR 1655 *Metarhizium* sp. 10071
 DWR 1656 *Metarhizium* sp. 10072
 DWR 1657 *Metarhizium* sp. 10073
 DWR 1658 *Metarhizium* sp. 10074
 DWR 1659 *Metarhizium* sp. 10075
 DWR 166 *Metarhizium acridum* 6859
 DWR 1660 *Metarhizium* sp. 10076
 DWR 167 *Metarhizium anisopliae* sensu lato 6860
 DWR 168 *Metarhizium anisopliae* sensu lato 6861
 DWR 1683 *Metarhizium* sp. 10077
 DWR 1684 *Metarhizium* sp. 10078
 DWR 1685 *Metarhizium* sp. 10079
 DWR 1686 *Metarhizium* sp. 10080
 DWR 1687 *Metarhizium* sp. 10081
 DWR 1688 *Metarhizium* sp. 10082
 DWR 1689 *Metarhizium* sp. 10083
 DWR 1690 *Metarhizium* sp. 10084
 DWR 1699 *Metarhizium* sp. 10085
 DWR 1700 *Metarhizium* sp. 10086
 DWR 1701 *Metarhizium* sp. 10087
 DWR 1702 *Metarhizium* sp. 10088
 DWR 1703 *Metarhizium* sp. 10089
 DWR 1704 *Metarhizium* sp. 10090
 DWR 1705 *Metarhizium* sp. 10091
 DWR 1706 *Metarhizium* sp. 10092
 DWR 1707 *Metarhizium* sp. 10093
 DWR 1708 *Metarhizium* sp. 10094
 DWR 1709 *Metarhizium* sp. 10095
 DWR 171 *Metarhizium anisopliae* sensu lato 6863
 DWR 1710 *Metarhizium* sp. 10096
 DWR 1714 *Metarhizium* sp. 10097
 DWR 1715 *Metarhizium* sp. 10098
 DWR 1716 *Metarhizium* sp. 10099
 DWR 1717 *Metarhizium* sp. 10100
 DWR 1718 *Metarhizium* sp. 10101
 DWR 1719 *Metarhizium* sp. 10102
 DWR 172 *Metarhizium robertsii* 6864
 DWR 1720 *Metarhizium* sp. 10103
 DWR 1721 *Metarhizium* sp. 10104
 DWR 1722 *Metarhizium* sp. 10105
 DWR 1723 *Metarhizium* sp. 10106
 DWR 173 *Metarhizium robertsii* 6865
 DWR 1740 *Metarhizium* sp. 10107
 DWR 1741 *Metarhizium* sp. 10108
 DWR 1742 *Metarhizium* sp. 10109
 DWR 1743 *Metarhizium* sp. 10110
 DWR 1744 *Metarhizium* sp. 10111
 DWR 176 *Metarhizium anisopliae* sensu lato 6996
 DWR 1763 *Metarhizium* sp. 10112
 DWR 1764 *Metarhizium* sp. 10113
 DWR 1765 *Metarhizium* sp. 10114
 DWR 1766 *Metarhizium* sp. 10115
 DWR 1767 *Metarhizium* sp. 10116
 DWR 1771 *Metarhizium* sp. 10117
 DWR 179 *Metarhizium anisopliae* sensu lato 6997
 DWR 180 *Metarhizium anisopliae* sensu lato 6998
 DWR 1808 *Metarhizium* sp. 10118
 DWR 1809 *Metarhizium* sp. 10119
 DWR 181 *Metarhizium anisopliae* sensu lato 6999
 DWR 1810 *Metarhizium* sp. 10120
 DWR 1811 *Metarhizium* sp. 10121
 DWR 1812 *Metarhizium* sp. 10122
 DWR 1813 *Metarhizium* sp. 10123
 DWR 1814 *Metarhizium* sp. 10124
 DWR 1815 *Metarhizium* sp. 10125
 DWR 1844 *Metarhizium* sp. 10126
 DWR 1845 *Metarhizium* sp. 10314
 DWR 1855 *Metarhizium* sp. 10315
 DWR 1856 *Metarhizium* sp. 10316
 DWR 1857 *Metarhizium* sp. 10317
 DWR 1858 *Metarhizium* sp. 10318
 DWR 1859 *Metarhizium* sp. 10319
 DWR 1860 *Metarhizium* sp. 10320
 DWR 1908 *Metarhizium* sp. 10321
 DWR 1909 *Metarhizium* sp. 10322
 DWR 1938 *Metarhizium* sp. 10323
 DWR 1942 *Metarhizium* sp. 10324
 DWR 1949 *Metarhizium* sp. 10325
 DWR 1950 *Metarhizium* sp. 10326
 DWR 1951 *Metarhizium* sp. 10327
 DWR 1954 *Metarhizium* sp. 10328
 DWR 1955 *Metarhizium* sp. 10329
 DWR 1956 *Metarhizium* sp. 10330
 DWR 1957 *Metarhizium* sp. 10331
 DWR 1958 *Metarhizium* sp. 10332
 DWR 1971 *Metarhizium* sp. 10333
 DWR 1996 *Metarhizium* sp. 10334
 DWR 1997 *Metarhizium robertsii* 10000
 DWR 1998 *Metarhizium* sp. 10335
 DWR 1999 *Metarhizium* sp. 10336
 DWR 200 *Metarhizium anisopliae* sensu lato 8363
 DWR 200 *Metarhizium anisopliae* sensu lato 7847
 DWR 2003 *Metarhizium* sp. 10337
 DWR 2004 *Metarhizium* sp. 10338
 DWR 2005 *Metarhizium* sp. 10339
 DWR 2006 *Metarhizium* sp. 10340
 DWR 2007 *Metarhizium* sp. 10341
 DWR 2008 *Metarhizium* sp. 10342
 DWR 2009 *Metarhizium* sp. 10343
 DWR 2010 *Metarhizium* sp. 10344
 DWR 2011 *Metarhizium* sp. 10345
 DWR 2025 *Metarhizium* sp. 10346
 DWR 203 *Metarhizium anisopliae* sensu lato 8364
 DWR 217 *Metarhizium anisopliae* sensu lato 8362
 DWR 261 *Metarhizium anisopliae* sensu lato 8365
 DWR 312 *Metarhizium anisopliae* sensu lato 8366
 DWR 313 *Metarhizium anisopliae* sensu lato 8357
 DWR 338 *Metarhizium anisopliae* sensu lato 8358
 DWR 346 *Metarhizium anisopliae* sensu lato 8367
 DWR 356 *Metarhizium* sp. 9617
 DWR 357 *Metarhizium* sp. 9618
 DWR 358 *Metarhizium* sp. 9619
 DWR 364 *Metarhizium* sp. 9620
 DWR 365 *Metarhizium* sp. 9621
 DWR 366 *Metarhizium* sp. 9622
 DWR 367 *Metarhizium* sp. 9623
 DWR 368 *Metarhizium* sp. 9624
 DWR 369 *Metarhizium* sp. 9625
 DWR 379 *Metarhizium* sp. 9626
 DWR 380 *Metarhizium* sp. 9627
 DWR 381 *Metarhizium* sp. 9628
 DWR 382 *Metarhizium* sp. 9629
 DWR 383 *Metarhizium* sp. 9630
 DWR 384 *Metarhizium* sp. 9631
 DWR 385 *Metarhizium* sp. 9632
 DWR 386 *Metarhizium* sp. 9633
 DWR 387 *Metarhizium* sp. 9634
 DWR 388 *Metarhizium* sp. 9635
 DWR 389 *Metarhizium* sp. 9636
 DWR 390 *Metarhizium* sp. 9637
 DWR 391 *Metarhizium* sp. 9638
 DWR 392 *Metarhizium* sp. 9639
 DWR 393 *Metarhizium* sp. 9640
 DWR 45 *Metarhizium anisopliae* sensu lato 6829
 DWR 456 *Metarhizium* sp. 9641
 DWR 457 *Metarhizium* sp. 9642
 DWR 459 *Metarhizium* sp. 9643
 DWR 46 *Metarhizium anisopliae* sensu lato 6830
 DWR 460 *Metarhizium* sp. 9644
 DWR 461 *Metarhizium* sp. 9645
 DWR 462 *Metarhizium* sp. 9646
 DWR 463 *Metarhizium* sp. 9647
 DWR 464 *Metarhizium* sp. 9648
 DWR 465 *Metarhizium* sp. 9649
 DWR 47 *Metarhizium anisopliae* sensu lato 6831
 DWR 471 *Metarhizium* sp. 9650
 DWR 472 *Metarhizium* sp. 9651
 DWR 473 *Metarhizium* sp. 9652
 DWR 478 *Metarhizium* sp. 9653
 DWR 479 *Metarhizium* sp. 9654
 DWR 48 *Metarhizium anisopliae* sensu lato 6832
 DWR 480 *Metarhizium* sp. 9655
 DWR 484 *Metarhizium* sp. 9656
 DWR 485 *Metarhizium* sp. 9657
 DWR 49 *Metarhizium anisopliae* sensu lato 6833
 DWR 497 *Metarhizium* sp. 9658
 DWR 498 *Metarhizium* sp. 9659
 DWR 499 *Metarhizium* sp. 9660
 DWR 50 *Metarhizium anisopliae* sensu lato 6834
 DWR 500 *Metarhizium* sp. 9661
 DWR 501 *Metarhizium* sp. 9662
 DWR 502 *Metarhizium* sp. 9663
 DWR 503 *Metarhizium* sp. 9664

DWR 504 <i>Metarhizium</i> sp. 9665	DWR 597 <i>Metarhizium</i> sp. 9718	DWR 765 <i>Metarhizium</i> sp. 9772
DWR 505 <i>Metarhizium</i> sp. 9666	DWR 598 <i>Metarhizium</i> sp. 9719	DWR 766 <i>Metarhizium</i> sp. 9773
DWR 507 <i>Metarhizium</i> sp. 9667	DWR 599A <i>Metarhizium</i> sp. 9720	DWR 767 <i>Metarhizium</i> sp. 9774
DWR 508 <i>Metarhizium</i> sp. 9668	DWR 599B <i>Metarhizium</i> sp. 9721	DWR 768 <i>Metarhizium</i> sp. 9775
DWR 509 <i>Metarhizium</i> sp. 9669	DWR 60 <i>Metarhizium robertsii</i> 6842	DWR 793 <i>Metarhizium</i> sp. 9776
DWR 51 <i>Metarhizium anisopliae</i> sensu lato 6835	DWR 600A <i>Metarhizium</i> sp. 9722	DWR 794 <i>Metarhizium</i> sp. 9777
DWR 510 <i>Metarhizium</i> sp. 9670	DWR 600B <i>Metarhizium</i> sp. 9723	DWR 795 <i>Metarhizium</i> sp. 9778
DWR 512 <i>Metarhizium</i> sp. 9671	DWR 601 <i>Metarhizium</i> sp. 9724	DWR 796 <i>Metarhizium</i> sp. 9779
DWR 513 <i>Metarhizium</i> sp. 9672	DWR 602 <i>Metarhizium</i> sp. 9725	DWR 797 <i>Metarhizium</i> sp. 9780
DWR 514 <i>Metarhizium</i> sp. 9673	DWR 603 <i>Metarhizium</i> sp. 9726	DWR 798 <i>Metarhizium</i> sp. 9781
DWR 515 <i>Metarhizium</i> sp. 9674	DWR 604 <i>Metarhizium</i> sp. 9727	DWR 799 <i>Metarhizium</i> sp. 9782
DWR 516 <i>Metarhizium</i> sp. 9675	DWR 605 <i>Metarhizium</i> sp. 9728	DWR 800 <i>Metarhizium</i> sp. 9783
DWR 517 <i>Metarhizium</i> sp. 9676	DWR 61 <i>Metarhizium robertsii</i> 6843	DWR 801 <i>Metarhizium</i> sp. 9784
DWR 518 <i>Metarhizium</i> sp. 9677	DWR 619 <i>Metarhizium</i> sp. 9729	DWR 802 <i>Metarhizium</i> sp. 9785
DWR 519 <i>Metarhizium</i> sp. 9678	DWR 62 <i>Metarhizium robertsii</i> 6844	DWR 803 <i>Metarhizium</i> sp. 9786
DWR 52 <i>Metarhizium anisopliae</i> sensu lato 6836	DWR 62 <i>Metarhizium robertsii</i> 6755	DWR 804 <i>Metarhizium</i> sp. 9787
DWR 520 <i>Metarhizium</i> sp. 9679	DWR 620 <i>Metarhizium</i> sp. 9730	DWR 805 <i>Metarhizium</i> sp. 9788
DWR 521 <i>Metarhizium</i> sp. 9680	DWR 621 <i>Metarhizium</i> sp. 9731	DWR 806 <i>Metarhizium</i> sp. 9789
DWR 522 <i>Metarhizium</i> sp. 9681	DWR 63 <i>Metarhizium robertsii</i> 6845	DWR 807 <i>Metarhizium</i> sp. 9790
DWR 523 <i>Metarhizium</i> sp. 9682	DWR 632 <i>Metarhizium</i> sp. 9732	DWR 818 <i>Metarhizium</i> sp. 9791
DWR 524 <i>Metarhizium</i> sp. 9683	DWR 633 <i>Metarhizium</i> sp. 9733	DWR 819 <i>Metarhizium</i> sp. 9792
DWR 525 <i>Metarhizium</i> sp. 9684	DWR 634 <i>Metarhizium</i> sp. 9734	DWR 820 <i>Metarhizium</i> sp. 9793
DWR 526 <i>Metarhizium</i> sp. 9685	DWR 635 <i>Metarhizium</i> sp. 9735	DWR 821 <i>Metarhizium</i> sp. 9794
DWR 529 <i>Metarhizium</i> sp. 9686	DWR 636 <i>Metarhizium</i> sp. 9736	DWR 822 <i>Metarhizium</i> sp. 9795
DWR 53 <i>Metarhizium anisopliae</i> sensu lato 6837	DWR 637 <i>Metarhizium</i> sp. 9737	DWR 823 <i>Metarhizium</i> sp. 9796
DWR 534 <i>Metarhizium</i> sp. 9687	DWR 638 <i>Metarhizium</i> sp. 9738	DWR 824 <i>Metarhizium</i> sp. 9797
DWR 535 <i>Metarhizium</i> sp. 9688	DWR 639 <i>Metarhizium</i> sp. 9739	DWR 825 <i>Metarhizium</i> sp. 9798
DWR 54 <i>Metarhizium anisopliae</i> sensu lato 6838	DWR 64 <i>Metarhizium robertsii</i> 6846	DWR 826 <i>Metarhizium</i> sp. 9799
DWR 541 <i>Metarhizium</i> sp. 9689	DWR 640 <i>Metarhizium</i> sp. 9740	DWR 827 <i>Metarhizium</i> sp. 9800
DWR 542 <i>Metarhizium</i> sp. 9690	DWR 641 <i>Metarhizium</i> sp. 9741	DWR 828 <i>Metarhizium</i> sp. 9801
DWR 543 <i>Metarhizium</i> sp. 9691	DWR 642 <i>Metarhizium</i> sp. 9742	DWR 829 <i>Metarhizium</i> sp. 9802
DWR 544 <i>Metarhizium</i> sp. 9692	DWR 643 <i>Metarhizium</i> sp. 9743	DWR 830 <i>Metarhizium</i> sp. 9803
DWR 545 <i>Metarhizium</i> sp. 9693	DWR 65 <i>Metarhizium robertsii</i> 6847	DWR 831 <i>Metarhizium</i> sp. 9804
DWR 546 <i>Metarhizium</i> sp. 9694	DWR 655 <i>Metarhizium</i> sp. 9744	DWR 832 <i>Metarhizium</i> sp. 9805
DWR 547 <i>Metarhizium</i> sp. 9695	DWR 656 <i>Metarhizium</i> sp. 9745	DWR 833 <i>Metarhizium</i> sp. 9806
DWR 55 <i>Metarhizium anisopliae</i> sensu lato 6839	DWR 657 <i>Metarhizium</i> sp. 9746	DWR 834 <i>Metarhizium</i> sp. 9807
DWR 550 <i>Metarhizium</i> sp. 9696	DWR 658 <i>Metarhizium</i> sp. 9747	DWR 835 <i>Metarhizium</i> sp. 9808
DWR 572 <i>Metarhizium</i> sp. 9697	DWR 659 <i>Metarhizium</i> sp. 9748	DWR 836 <i>Metarhizium</i> sp. 9809
DWR 573 <i>Metarhizium</i> sp. 9698	DWR 66 <i>Metarhizium robertsii</i> 6848	DWR 837 <i>Metarhizium</i> sp. 9810
DWR 574 <i>Metarhizium</i> sp. 9699	DWR 660 <i>Metarhizium</i> sp. 9749	DWR 838 <i>Metarhizium</i> sp. 9811
DWR 575 <i>Metarhizium</i> sp. 9700	DWR 669 <i>Metarhizium</i> sp. 9750	DWR 839 <i>Metarhizium</i> sp. 9812
DWR 576 <i>Metarhizium</i> sp. 9701	DWR 67 <i>Metarhizium anisopliae</i> sensu lato 6849	DWR 840 <i>Metarhizium</i> sp. 9813
DWR 577 <i>Metarhizium</i> sp. 9702	DWR 670 <i>Metarhizium</i> sp. 9751	DWR 841 <i>Metarhizium</i> sp. 9814
DWR 578 <i>Metarhizium</i> sp. 9703	DWR 692 <i>Metarhizium</i> sp. 9752	DWR 842 <i>Metarhizium</i> sp. 9815
DWR 579 <i>Metarhizium</i> sp. 9704	DWR 693 <i>Metarhizium</i> sp. 9753	DWR 843 <i>Metarhizium</i> sp. 9816
DWR 58 <i>Metarhizium anisopliae</i> sensu lato 6840	DWR 694 <i>Metarhizium</i> sp. 9754	DWR 844 <i>Metarhizium</i> sp. 9817
DWR 580 <i>Metarhizium</i> sp. 9705	DWR 695 <i>Metarhizium</i> sp. 9755	DWR 845 <i>Metarhizium</i> sp. 9818
DWR 581 <i>Metarhizium</i> sp. 9706	DWR 696 <i>Metarhizium</i> sp. 9756	DWR 846 <i>Metarhizium</i> sp. 9819
DWR 582 <i>Metarhizium</i> sp. 9707	DWR 697 <i>Metarhizium</i> sp. 9757	DWR 847 <i>Metarhizium</i> sp. 9820
DWR 587 <i>Metarhizium</i> sp. 9708	DWR 71 <i>Metarhizium anisopliae</i> sensu lato 6850	DWR 848 <i>Metarhizium</i> sp. 9821
DWR 588 <i>Metarhizium</i> sp. 9709	DWR 712 <i>Metarhizium</i> sp. 9758	DWR 849 <i>Metarhizium</i> sp. 9822
DWR 589 <i>Metarhizium</i> sp. 9710	DWR 713 <i>Metarhizium</i> sp. 9759	DWR 850 <i>Metarhizium</i> sp. 9823
DWR 59 <i>Metarhizium robertsii</i> 6841	DWR 714 <i>Metarhizium</i> sp. 9760	DWR 851 <i>Metarhizium</i> sp. 9824
DWR 590 <i>Metarhizium</i> sp. 9711	DWR 715 <i>Metarhizium</i> sp. 9761	DWR 852 <i>Metarhizium</i> sp. 9825
DWR 591 <i>Metarhizium</i> sp. 9712	DWR 716 <i>Metarhizium</i> sp. 9762	DWR 853 <i>Metarhizium</i> sp. 9826
DWR 592 <i>Metarhizium</i> sp. 9713	DWR 741 <i>Metarhizium</i> sp. 9763	DWR 86 <i>Metarhizium anisopliae</i> sensu lato 6756
DWR 593 <i>Metarhizium</i> sp. 9714	DWR 742 <i>Metarhizium</i> sp. 9764	DWR 866 <i>Metarhizium</i> sp. 9827
DWR 594 <i>Metarhizium</i> sp. 9715	DWR 758 <i>Metarhizium</i> sp. 9765	DWR 867 <i>Metarhizium</i> sp. 9828
DWR 595 <i>Metarhizium</i> sp. 9716	DWR 759 <i>Metarhizium</i> sp. 9766	DWR 868 <i>Metarhizium</i> sp. 9829
DWR 596 <i>Metarhizium</i> sp. 9717	DWR 760 <i>Metarhizium</i> sp. 9767	DWR 869 <i>Metarhizium</i> sp. 9830

Alternate Collections

*Roberts, Donald W.
Rombach, Michiel C.*

DWR 88 <i>Metarhizium anisopliae</i> sensu lato 6757	Ma Teetor S2 SS#22 <i>Metarhizium anisopliae</i> sensu lato 866	Ma Teetor S2 SS#8 <i>Metarhizium anisopliae</i> sensu lato 890
DWR 880 <i>Metarhizium</i> sp. 9835	Ma Teetor S2 SS#3 <i>Metarhizium anisopliae</i> sensu lato 893	Ma Teetor S2 SS#9 <i>Metarhizium anisopliae</i> sensu lato 889
DWR 881 <i>Metarhizium</i> sp. 9836	Ma Teetor S2 SS#4 <i>Metarhizium anisopliae</i> sensu lato 873	MaT3JB-A <i>Metarhizium robertsii</i> 1878
DWR 882 <i>Metarhizium</i> sp. 9837	Ma Teetor S2 SS#5 <i>Metarhizium anisopliae</i> sensu lato 1097	MaT3JB-B <i>Metarhizium robertsii</i> 1298
DWR 90 <i>Metarhizium anisopliae</i> sensu lato 6758	Ma Teetor S2 SS#5 <i>Metarhizium anisopliae</i> sensu lato 1091	MaT3JB-C <i>Metarhizium anisopliae</i> sensu lato 1280
DWR 900 <i>Metarhizium</i> sp. 9838	Ma Teetor S2 SS#5 <i>Metarhizium anisopliae</i> sensu lato 1090	Pol-32 <i>Metarhizium majus</i> 1859
DWR 91 <i>Metarhizium anisopliae</i> sensu lato 6759	Ma Teetor S2 SS#5 <i>Metarhizium anisopliae</i> sensu lato 1089	Pol-42 <i>Metarhizium majus</i> 1858
DWR 911 <i>Metarhizium</i> sp. 9839	Ma Teetor S2 SS#5 <i>Metarhizium anisopliae</i> sensu lato 1088	R <i>Metarhizium flavoviride</i> var. <i>minus</i> 1305
DWR 912 <i>Metarhizium</i> sp. 9840	Ma Teetor S2 SS#5 <i>Metarhizium anisopliae</i> sensu lato 1087	S <i>Metarhizium flavoviride</i> var. <i>minus</i> 1271
DWR 913 <i>Metarhizium</i> sp. 9841	Ma Teetor S2 SS#5 <i>Metarhizium anisopliae</i> sensu lato 1086	single spore isolate #1 <i>Metarhizium anisopliae</i> sensu lato 1280
DWR 914 <i>Metarhizium</i> sp. 9842	Ma Teetor S2 SS#5 <i>Metarhizium anisopliae</i> sensu lato 1085	single spore isolate #9 <i>Metarhizium robertsii</i> 1298
DWR 915 <i>Metarhizium</i> sp. 9843	Ma Teetor S2 SS#5 <i>Metarhizium anisopliae</i> sensu lato 1084	T2 <i>Metarhizium flavoviride</i> var. <i>minus</i> 1273
DWR 916 <i>Metarhizium</i> sp. 9844	Ma Teetor S2 SS#5 <i>Metarhizium anisopliae</i> sensu lato 1083	V-14 (F84 mutant) <i>Metarhizium robertsii</i> 1897
DWR 917 <i>Metarhizium</i> sp. 9845	Ma Teetor S2 SS#5 <i>Metarhizium anisopliae</i> sensu lato 1025	VI <i>Metarhizium flavoviride</i> var. <i>minus</i> 1301
DWR 918 <i>Metarhizium</i> sp. 9846	Ma Teetor S2 SS#5 <i>Metarhizium anisopliae</i> sensu lato 1024	VII <i>Metarhizium flavoviride</i> var. <i>minus</i> 1283
DWR 919 <i>Metarhizium</i> sp. 9847	Ma Teetor S2 SS#5 <i>Metarhizium anisopliae</i> sensu lato 1023	VIII <i>Metarhizium anisopliae</i> sensu lato 1300
DWR 92 <i>Metarhizium anisopliae</i> sensu lato 6760	Ma Teetor S2 SS#5 <i>Metarhizium anisopliae</i> sensu lato 1022	VSS#1 <i>Metarhizium anisopliae</i> sensu lato 906
DWR 920 <i>Metarhizium</i> sp. 9848	Ma Teetor S2 SS#5 <i>Metarhizium anisopliae</i> sensu lato 968	VSS#2 <i>Metarhizium anisopliae</i> sensu lato 905
DWR 940 <i>Metarhizium</i> sp. 9849	Ma Teetor S2 SS#5 <i>Metarhizium anisopliae</i> sensu lato 966	VSS#3 <i>Metarhizium anisopliae</i> sensu lato 904
DWR 941 <i>Metarhizium</i> sp. 9850	Ma Teetor S2 SS#5 <i>Metarhizium anisopliae</i> sensu lato 965	VSS#4 <i>Metarhizium anisopliae</i> sensu lato 903
DWR 942 <i>Metarhizium</i> sp. 9851	Ma Teetor S2 SS#5 <i>Metarhizium anisopliae</i> sensu lato 960	VSS#5 <i>Metarhizium anisopliae</i> sensu lato 902
F985 <i>Metarhizium anisopliae</i> var. <i>acridum</i> 8359	Ma Teetor S2 SS#5 <i>Metarhizium anisopliae</i> sensu lato 922	VSS#6 <i>Metarhizium anisopliae</i> sensu lato 901
H <i>Metarhizium flavoviride</i> var. <i>minus</i> 1293	Ma Teetor S2 SS#5 <i>Metarhizium anisopliae</i> sensu lato 921	Rombach, Michiel C.
I <i>Metarhizium flavoviride</i> var. <i>minus</i> 1277	Ma Teetor S2 SS#5 <i>Metarhizium anisopliae</i> sensu lato 913	051185-4 <i>Metarhizium flavoviride</i> var. <i>minus</i> 2037
IV <i>Metarhizium flavoviride</i> var. <i>minus</i> 1276	Ma Teetor S2 SS#5 <i>Metarhizium anisopliae</i> sensu lato 912	061185-1 <i>Metarhizium pingshaense</i> 2043
IX <i>Metarhizium flavoviride</i> var. <i>minus</i> 1279	Ma Teetor S2 SS#5 <i>Metarhizium anisopliae</i> sensu lato 908	111286-2 <i>Nomuraea rileyi</i> 2390
Ma Teetor S-SS#5 <i>Metarhizium anisopliae</i> sensu lato 967	Ma Teetor S2 SS#5 <i>Metarhizium anisopliae</i> sensu lato 907	111286-2 <i>Nomuraea rileyi</i> 2345
Ma Teetor S2 SS#1 <i>Metarhizium anisopliae</i> sensu lato 875	Ma Teetor S2 SS#5 <i>Metarhizium anisopliae</i> sensu lato 906	120186-2 <i>Metarhizium flavoviride</i> var. <i>minus</i> 2339
Ma Teetor S2 SS#10 <i>Metarhizium anisopliae</i> sensu lato 898	Ma Teetor S2 SS#5 <i>Metarhizium anisopliae</i> sensu lato 904	120286-2 <i>Metarhizium anisopliae</i> sensu lato 2341
Ma Teetor S2 SS#11 <i>Metarhizium anisopliae</i> sensu lato 897	Ma Teetor S2 SS#5 <i>Metarhizium anisopliae</i> sensu lato 903	120286-3 <i>Metarhizium anisopliae</i> sensu lato 2342
Ma Teetor S2 SS#12 <i>Metarhizium anisopliae</i> sensu lato 896	Ma Teetor S2 SS#5 <i>Metarhizium anisopliae</i> sensu lato 902	120286-4 <i>Metarhizium anisopliae</i> sensu lato 2343
Ma Teetor S2 SS#13 <i>Metarhizium anisopliae</i> sensu lato 895	Ma Teetor S2 SS#5 <i>Metarhizium anisopliae</i> sensu lato 901	121186-1 <i>Nomuraea rileyi</i> 2395
Ma Teetor S2 SS#14 <i>Metarhizium anisopliae</i> sensu lato 894	Ma Teetor S2 SS#5 <i>Metarhizium anisopliae</i> sensu lato 900	130586-14 <i>Nomuraea rileyi</i> 2174
Ma Teetor S2 SS#15 <i>Metarhizium anisopliae</i> sensu lato 870	Ma Teetor S2 SS#5 <i>Metarhizium anisopliae</i> sensu lato 908	130586-17 <i>Metarhizium album</i> 2176
Ma Teetor S2 SS#16 <i>Metarhizium anisopliae</i> sensu lato 868	Ma Teetor S2 SS#5 <i>Metarhizium anisopliae</i> sensu lato 907	130586-19 <i>Metarhizium album</i> 2178
Ma Teetor S2 SS#17 <i>Metarhizium anisopliae</i> sensu lato 869	Ma Teetor S2 SS#5 <i>Metarhizium anisopliae</i> sensu lato 872	130586-20 <i>Metarhizium album</i> 2179
Ma Teetor S2 SS#18 <i>Metarhizium anisopliae</i> sensu lato 867	Ma Teetor S2 SS#6 <i>Metarhizium anisopliae</i> sensu lato 892	140486 <i>Metarhizium brunneum</i> 2224
Ma Teetor S2 SS#19 <i>Metarhizium anisopliae</i> sensu lato 864	Ma Teetor S2 SS#7 <i>Metarhizium anisopliae</i> sensu lato 891	140486-1 <i>Metarhizium brunneum</i> 2210
Ma Teetor S2 SS#2 <i>Metarhizium anisopliae</i> sensu lato 874		161085-35 <i>Metarhizium anisopliae</i> sensu lato 2038
Ma Teetor S2 SS#20 <i>Metarhizium anisopliae</i> sensu lato 865		161085-36 <i>Metarhizium anisopliae</i> sensu lato 2039
Ma Teetor S2 SS#21 <i>Metarhizium anisopliae</i> sensu lato 871		

170386-1 <i>Metarhizium anisopliae</i> var. <i>majus</i> 2151	Ma8 <i>Metarhizium anisopliae</i> sensu lato 849	CNPSo Nr 181 <i>Nomuraea rileyi</i> 6766
200386-2 <i>Metarhizium anisopliae</i> sensu <i>stricto</i> 2153	Ma9 <i>Metarhizium anisopliae</i> sensu lato 857	CNPSo Nr 182 <i>Nomuraea rileyi</i> 6767
201286-4 <i>Metarhizium</i> sp. 2353		CNPSo Nr 183 <i>Nomuraea rileyi</i> 6768
220786-1 <i>Metarhizium anisopliae</i> sensu <i>lato</i> 2230		CNPSo Nr 184 <i>Nomuraea rileyi</i> 6769
3 <i>Nomuraea rileyi</i> 1893		CNPSo Nr 185 <i>Nomuraea rileyi</i> 6770
7 <i>Nomuraea atypicola</i> 1904		CNPSo Nr 186 <i>Nomuraea rileyi</i> 6771
B <i>Metarhizium anisopliae</i> sensu lato 1432	Searle, Tanya CWMA <i>Metarhizium robertsii</i> 2981	CNPSo Nr 187 <i>Nomuraea rileyi</i> 6772
Lib.11 <i>Metarhizium flavoviride</i> var. <i>mi-</i> <i>nus</i> 1546	E <i>Metarhizium robertsii</i> 2134	CNPSo Nr 189 <i>Nomuraea rileyi</i> 6773
Lib.16 <i>Metarhizium flavoviride</i> var. <i>mi-</i> <i>nus</i> 1547	F <i>Metarhizium anisopliae</i> sensu lato 2135	CNPSo Nr 190 <i>Nomuraea rileyi</i> 6774
Ma.Pal.I <i>Metarhizium anisopliae</i> sensu <i>lato</i> 1548	K <i>Metarhizium anisopliae</i> sensu lato 2136	CNPSo Nr 191 <i>Nomuraea rileyi</i> 6775
Ma.Pal.II <i>Metarhizium pingshaense</i> 1545	N <i>Metarhizium guizhouense</i> 2140	CNPSo Nr 192 <i>Nomuraea rileyi</i> 6776
MALBIRRI <i>Metarhizium flavoviride</i> var. <i>minus</i> 1945	PAMA <i>Metarhizium robertsii</i> 2982	CNPSo Nr 193 <i>Nomuraea rileyi</i> 6777
MLAG <i>Metarhizium album</i> 1942	Q <i>Metarhizium anisopliae</i> sensu lato 2137	CNPSo Nr 194 <i>Nomuraea rileyi</i> 6778
MLAGwhite <i>Metarhizium album</i> 1943	W <i>Metarhizium anisopliae</i> sensu lato 2138	CNPSo Nr 195 <i>Nomuraea rileyi</i> 6779
MMQ <i>Metarhizium majus</i> 1946	Z <i>Metarhizium anisopliae</i> sensu lato 2139	CNPSo Nr 196 <i>Nomuraea rileyi</i> 6780
MPAL <i>Metarhizium album</i> 1941		CNPSo Nr 197 <i>Nomuraea rileyi</i> 6781
Nr-B <i>Nomuraea rileyi</i> 1761		CNPSo Nr 198 <i>Nomuraea rileyi</i> 6782
Sánchez Peña, Sergio René		CNPSo Nr 199 <i>Nomuraea rileyi</i> 6783
1 <i>Metarhizium brunneum</i> 2764		CNPSo Nr 200 <i>Nomuraea rileyi</i> 6784
Schaerffenberg, Bruno		CNPSo Nr 201 <i>Nomuraea rileyi</i> 6785
Ma1 <i>Metarhizium anisopliae</i> sensu lato 847		CNPSo Nr 202 <i>Nomuraea rileyi</i> 6787
Ma10 <i>Metarhizium anisopliae</i> sensu lato 851		CNPSo Nr 202 <i>Nomuraea rileyi</i> 6786
Ma11 <i>Metarhizium anisopliae</i> sensu lato 853		CNPSo Nr 22 <i>Nomuraea rileyi</i> 6731
Ma12 <i>Metarhizium anisopliae</i> sensu lato 856		CNPSo Nr 27 <i>Nomuraea rileyi</i> 6732
Ma13 <i>Metarhizium anisopliae</i> sensu lato 845		CNPSo Nr 33 <i>Nomuraea rileyi</i> 6733
Ma14 <i>Metarhizium anisopliae</i> sensu lato 854		CNPSo Nr 66 <i>Nomuraea rileyi</i> 6734
Ma15 <i>Metarhizium anisopliae</i> sensu lato 850		CNPSo Nr 72 <i>Nomuraea rileyi</i> 6735
Ma16 <i>Metarhizium anisopliae</i> sensu lato 844		CNPSo-Bb49 <i>Metarhizium anisopliae</i> sensu lato 3930
Ma17 <i>Metarhizium anisopliae</i> sensu lato 848		CNPSo-Ma12 <i>Metarhizium anisopliae</i> sensu lato 5161
Ma18 <i>Metarhizium anisopliae</i> sensu lato 846		CNPSo-MA2 <i>Metarhizium anisopliae</i> sensu lato 3918
Ma19 <i>Metarhizium anisopliae</i> sensu lato 858		CNPSo-Ma3 <i>Metarhizium anisopliae</i> sensu lato 3919
Ma2 <i>Metarhizium anisopliae</i> sensu lato 862		CNPSo-Ma4 <i>Metarhizium anisopliae</i> sensu lato 3920
Ma20 <i>Metarhizium anisopliae</i> sensu lato 861		CNPSo-Ma58 <i>Metarhizium anisopliae</i> sensu stricto 3924
Ma3 <i>Metarhizium anisopliae</i> sensu lato 863		CNPSo-Ma60 <i>Metarhizium robertsii</i> 3925
Ma4 <i>Metarhizium anisopliae</i> sensu lato 859		CNPSo-NR66 <i>Nomuraea rileyi</i> 3940
Ma5 <i>Metarhizium anisopliae</i> sensu lato 855		
Ma6 <i>Metarhizium anisopliae</i> sensu lato 852		
Ma7 <i>Metarhizium anisopliae</i> sensu lato 860		
Soper, Richard S.		
10 <i>Nomuraea rileyi</i> 481		SRCAM
8133-1 <i>Metarhizium pingshaense</i> 576		F-362 <i>Metarhizium</i> sp. 7645
8133-3 <i>Nomuraea rileyi</i> 558		F-364 <i>Nomuraea</i> sp. 7851
F84-1-1 <i>Metarhizium robertsii</i> 23		F-60 <i>Metarhizium anisopliae</i> sensu lato 7644
NT-20 <i>Metarhizium anisopliae</i> sensu lato 487		VLI-271 <i>Metarhizium</i> sp. 7643
NT-21 <i>Metarhizium anisopliae</i> sensu lato 485		
NT-22 <i>Metarhizium anisopliae</i> sensu lato 489		
NT-24 <i>Metarhizium anisopliae</i> sensu lato 488		
NT-25 <i>Metarhizium anisopliae</i> sensu lato 486		
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CNPSo Nr 166 <i>Nomuraea rileyi</i> 6737		AS-464 <i>Metarhizium anisopliae</i> 9488
CNPSo Nr 167 <i>Nomuraea rileyi</i> 6738		B-412 <i>Nomuraea rileyi</i> 9490
CNPSo Nr 168 <i>Nomuraea rileyi</i> 6739		VL-1691/4 <i>Metarhizium anisopliae</i> sensu lato 9541
CNPSo Nr 169 <i>Nomuraea rileyi</i> 6740		VL-1757 <i>Metarhizium anisopliae</i> 9487
CNPSo Nr 170 <i>Nomuraea rileyi</i> 6741		VL-2125 <i>Nomuraea rileyi</i> 9489
CNPSo Nr 171 <i>Nomuraea rileyi</i> 6742		
CNPSo Nr 172 <i>Nomuraea rileyi</i> 6743		
CNPSo Nr 173 <i>Nomuraea rileyi</i> 6744		
CNPSo Nr 174 <i>Nomuraea rileyi</i> 6745		
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CNPSo Nr 176 <i>Nomuraea rileyi</i> 6747		
CNPSo Nr 177 <i>Nomuraea rileyi</i> 6748		
CNPSo Nr 178 <i>Nomuraea rileyi</i> 6749		
CNPSo Nr 179 <i>Nomuraea rileyi</i> 6764		
CNPSo Nr 180 <i>Nomuraea rileyi</i> 6765		
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ME-1 <i>Metarhizium robertsii</i> 2575		

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- 211 *Metarhizium brunneum* 4020
- SSL 14 *Metarhizium anisopliae* sensu lato 5837
- SSL 248 *Metarhizium anisopliae* sensu lato 5851
- SSL 32 *Metarhizium anisopliae* sensu lato 5841
- SSL 50 *Metarhizium anisopliae* sensu lato 5842
- SSL 75 *Metarhizium anisopliae* sensu lato 5848
- SSL 84 *Metarhizium anisopliae* sensu lato 5850

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- KEFC-356 *Metarhizium anisopliae* sensu lato 5715
- KEFC-642 *Metarhizium anisopliae* sensu lato 5716
- KEFC-835 *Metarhizium anisopliae* sensu lato 5717

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- Batch No. B1830 *Metarhizium robertsii* 3608
- Batch No. B1830 *Metarhizium robertsii* 2575

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- M-100 *Metarhizium acridum* 324

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- F84-1-1 *Metarhizium anisopliae* sensu lato 1097
- F84-1-1 *Metarhizium anisopliae* sensu lato 1094
- F84-1-1 *Metarhizium anisopliae* sensu lato 1091
- F84-1-1 *Metarhizium anisopliae* sensu lato 1090
- F84-1-1 *Metarhizium anisopliae* sensu lato 1089
- F84-1-1 *Metarhizium anisopliae* sensu lato 1088
- F84-1-1 *Metarhizium anisopliae* sensu lato 1087
- F84-1-1 *Metarhizium anisopliae* sensu lato 1086
- F84-1-1 *Metarhizium anisopliae* sensu lato 1085
- F84-1-1 *Metarhizium anisopliae* sensu lato 1084
- F84-1-1 *Metarhizium anisopliae* sensu lato 1083
- F84-1-1 *Metarhizium anisopliae* sensu lato 1025
- F84-1-1 *Metarhizium anisopliae* sensu lato 1024
- F84-1-1 *Metarhizium anisopliae* sensu lato 1023
- F84-1-1 *Metarhizium anisopliae* sensu lato 1022
- F84-1-1 *Metarhizium anisopliae* sensu lato 968
- F84-1-1 *Metarhizium anisopliae* sensu lato 967

- F84-1-1 *Metarhizium anisopliae* sensu lato 966

- F84-1-1 *Metarhizium anisopliae* sensu lato 965

- F84-1-1 *Metarhizium anisopliae* sensu lato 960

- F84-1-1 *Metarhizium anisopliae* sensu lato 922

- F84-1-1 *Metarhizium anisopliae* sensu lato 921

- F84-1-1 *Metarhizium anisopliae* sensu lato 913

- F84-1-1 *Metarhizium anisopliae* sensu lato 912

- F84-1-1 *Metarhizium anisopliae* sensu lato 911

- F84-1-1 *Metarhizium anisopliae* sensu lato 910

- F84-1-1 *Metarhizium anisopliae* sensu lato 909

- F84-1-1 *Metarhizium anisopliae* sensu lato 908

- F84-1-1 *Metarhizium anisopliae* sensu lato 907

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- PNG 1 *Metarhizium guizhouense* 4604
- PNG 2A *Metarhizium anisopliae* sensu lato 4630
- PNG 2B *Metarhizium anisopliae* sensu lato 4773
- PNG 2B *Metarhizium lepidiota* 4660
- PNG 3B *Metarhizium lepidiota* 4587
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- SOL IS 11 *Metarhizium anisopliae* sensu lato 4338
- SOL IS 12 *Metarhizium anisopliae* sensu lato 4341
- SOL IS 12 *Metarhizium anisopliae* sensu lato 4336
- SOL IS 14 *Metarhizium anisopliae* sensu lato 4340
- SOL IS 14 *Metarhizium anisopliae* sensu lato 4337
- SOL IS 15 *Metarhizium pingshaense* 4342
- SOL IS 16 *Metarhizium anisopliae* sensu lato 4334
- SOL IS 17 *Metarhizium anisopliae* sensu lato 4290
- SOL IS 2 *Metarhizium anisopliae* sensu lato 4572
- SOL IS 4 *Metarhizium pingshaense* 4610
- SOL IS 6 *Metarhizium anisopliae* sensu lato 4333
- SOL IS 7 *Metarhizium anisopliae* sensu lato 4335
- SOL IS 1 *Metarhizium anisopliae* sensu lato 4582

Torres Barragan, Andrea

- Ral 5 *Metarhizium anisopliae* sensu lato 8769

Tzean, S. S.

- PPH 13E *Nomuraea cylindrospora* 6926
- PPH 14E *Nomuraea viridulus* 6927

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- 5301 *Nomuraea anemonoides* 2467

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- ARSEF2153 *Metarhizium anisopliae* sensu lato 3822

Vandenberg, John D.

- 18 *Metarhizium anisopliae* sensu lato 4820
- 21 *Metarhizium anisopliae* sensu lato 4823
- 29 *Metarhizium anisopliae* sensu lato 4821
- 29-2 *Metarhizium anisopliae* sensu lato 4824
- 63 *Metarhizium anisopliae* sensu lato 4819
- DBM11C *Metarhizium anisopliae* sensu lato 4522
- JP1 *Metarhizium anisopliae* sensu lato 4822

Vänninen, Irene

- SF85-56 *Metarhizium brunneum* 5625
- SF85-60 *Metarhizium anisopliae* sensu lato 5624
- SF86-38 *Metarhizium brunneum* 5626

Vega, Fernando E.

- EBCL 97095 *Metarhizium robertsii* 5873

Wright, Maureen S.

- C 4B *Metarhizium anisopliae* sensu lato 8015

Yip, H.

- HY027 *Metarhizium anisopliae* sensu lato 4192
- HY100 *Metarhizium anisopliae* sensu lato 4624
- HY102 *Metarhizium anisopliae* sensu lato 4684
- HY103 *Metarhizium anisopliae* sensu lato 4731
- HY104 *Metarhizium flavoviride* var. *flavoviride* 4730
- HY105 *Metarhizium anisopliae* sensu lato 4619
- HY106 *Metarhizium anisopliae* sensu lato 4191
- HY108 *Metarhizium anisopliae* sensu lato 4189
- HY112 *Metarhizium anisopliae* sensu lato 4188
- HY113 *Metarhizium anisopliae* sensu lato 4187
- HY114 *Metarhizium flavoviride* 4221
- HY115 *Metarhizium anisopliae* sensu lato 4186
- HY116 *Metarhizium anisopliae* sensu lato 4185
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HY121 <i>Metarhizium anisopliae</i> sensu lato 4651	HY162 <i>Metarhizium anisopliae</i> sensu lato 4725	HY20 <i>Metarhizium anisopliae</i> sensu lato 4606
HY122 <i>Metarhizium anisopliae</i> sensu lato 4602	HY163 <i>Metarhizium anisopliae</i> sensu lato 4170	HY200 <i>Metarhizium anisopliae</i> sensu lato 4724
HY123 <i>Metarhizium flavoviride</i> var. <i>flavoviride</i> 4729	HY164 <i>Metarhizium anisopliae</i> sensu lato 4169	HY201 <i>Metarhizium anisopliae</i> sensu lato 4298
HY124 <i>Metarhizium anisopliae</i> sensu lato 4683	HY165 <i>Metarhizium anisopliae</i> sensu lato 4168	HY202 <i>Metarhizium anisopliae</i> sensu lato 4723
HY125 <i>Metarhizium anisopliae</i> sensu lato 4262	HY166 <i>Metarhizium anisopliae</i> sensu lato 4167	HY203 <i>Metarhizium anisopliae</i> sensu lato 4636
HY126 <i>Metarhizium anisopliae</i> sensu lato 4581	HY167 <i>Metarhizium anisopliae</i> sensu lato 4166	HY204 <i>Metarhizium anisopliae</i> sensu lato 4355
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HY130 <i>Metarhizium anisopliae</i> sensu lato 4599	HY169 <i>Metarhizium brunneum</i> 4164	HY207 <i>Metarhizium anisopliae</i> sensu lato 4280
HY131 <i>Metarhizium anisopliae</i> sensu lato 4275	HY171 <i>Metarhizium anisopliae</i> sensu lato 4163	HY207 <i>Metarhizium anisopliae</i> sensu lato 4190
HY132 <i>Metarhizium anisopliae</i> sensu lato 4282	HY173 <i>Metarhizium anisopliae</i> sensu lato 4162	HY208 <i>Metarhizium anisopliae</i> sensu lato 4155
HY133 <i>Metarhizium anisopliae</i> sensu lato 4184	HY174 <i>Metarhizium anisopliae</i> sensu lato 4244	HY209 <i>Metarhizium lepidiotae</i> 4628
HY134 <i>Metarhizium anisopliae</i> sensu lato 4183	HY175 <i>Metarhizium anisopliae</i> sensu lato 4287	HY21 <i>Metarhizium anisopliae</i> sensu lato 4184
HY139 <i>Metarhizium anisopliae</i> sensu lato 4643	HY176 <i>Metarhizium anisopliae</i> sensu lato 4225	HY210 <i>Metarhizium lepidiotae</i> 4154
HY140 <i>Metarhizium anisopliae</i> sensu lato 4226	HY178 <i>Metarhizium anisopliae</i> sensu lato 4248	HY213 <i>Metarhizium guizhouense</i> 4153
HY141 <i>Metarhizium anisopliae</i> sensu lato 4661	HY179 <i>Metarhizium anisopliae</i> sensu lato 4247	HY214 <i>Metarhizium brunneum</i> 4152
HY143 <i>Metarhizium anisopliae</i> sensu lato 4279	HY18 <i>Metarhizium anisopliae</i> sensu lato 4645	HY215 <i>Metarhizium anisopliae</i> sensu lato 4151
HY144 <i>Metarhizium anisopliae</i> sensu lato 4250	HY180 <i>Metarhizium anisopliae</i> sensu lato 4726	HY216 <i>Metarhizium anisopliae</i> sensu lato 4354
HY145 <i>Metarhizium anisopliae</i> sensu lato 4265	HY181 <i>Metarhizium anisopliae</i> sensu lato 4224	HY217 <i>Metarhizium anisopliae</i> sensu lato 4309
HY146 <i>Metarhizium anisopliae</i> sensu lato 4181	HY182 <i>Metarhizium anisopliae</i> sensu lato 4229	HY218 <i>Metarhizium anisopliae</i> sensu lato 4754
HY147 <i>Metarhizium anisopliae</i> sensu lato 4235	HY183 <i>Metarhizium anisopliae</i> sensu lato 4259	HY219 <i>Metarhizium anisopliae</i> sensu lato 4753
HY148 <i>Metarhizium brunneum</i> 4251	HY184 <i>Metarhizium anisopliae</i> sensu lato 4220	HY22 <i>Metarhizium anisopliae</i> sensu lato 4264
HY149 <i>Metarhizium anisopliae</i> sensu lato 4230	HY185 <i>Metarhizium frigidum</i> 4680	HY220 <i>Metarhizium anisopliae</i> sensu lato 4573
HY15 <i>Metarhizium anisopliae</i> sensu lato 4743	HY186 <i>Metarhizium frigidum</i> 4219	HY222 <i>Metarhizium anisopliae</i> sensu lato 4603
HY151 <i>Metarhizium flavoviride</i> 4272	HY187 <i>Metarhizium anisopliae</i> sensu lato 4269	HY224 <i>Metarhizium anisopliae</i> sensu lato 4578
HY152 <i>Metarhizium anisopliae</i> sensu lato 4180	HY189 <i>Metarhizium anisopliae</i> sensu lato 4270	HY225 <i>Metarhizium anisopliae</i> sensu lato 4655
HY153 <i>Metarhizium brunneum</i> 4179	HY19 <i>Metarhizium anisopliae</i> sensu lato 4634	HY226 <i>Metarhizium anisopliae</i> sensu lato 4752
HY154 <i>Metarhizium anisopliae</i> sensu lato 4178	HY190 <i>Metarhizium anisopliae</i> sensu lato 4161	HY228 <i>Metarhizium anisopliae</i> sensu lato 4674
HY155 <i>Metarhizium anisopliae</i> sensu lato 4177	HY191 <i>Metarhizium anisopliae</i> sensu lato 4160	HY229 <i>Metarhizium brunneum</i> 4615
HY156 <i>Metarhizium anisopliae</i> sensu lato 4175	HY192 <i>Metarhizium anisopliae</i> sensu lato 4159	HY231 <i>Metarhizium anisopliae</i> sensu lato 4613
HY157 <i>Metarhizium anisopliae</i> sensu lato 4176	HY194 <i>Metarhizium anisopliae</i> sensu lato 4286	HY232 <i>Metarhizium anisopliae</i> sensu lato 4669
HY158 <i>Metarhizium anisopliae</i> sensu lato 4174	HY195 <i>Metarhizium brunneum</i> 4158	HY233 <i>Metarhizium anisopliae</i> sensu lato 4563
HY159 <i>Metarhizium anisopliae</i> sensu lato 4173	HY196 <i>Metarhizium anisopliae</i> sensu lato 4296	HY234 <i>Metarhizium anisopliae</i> sensu lato 4757
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HY239 <i>Metarhizium anisopliae</i> sensu lato 4292	HY279 <i>Metarhizium anisopliae</i> sensu lato 4671	HY70 <i>Metarhizium anisopliae</i> sensu lato 4349
HY240 <i>Metarhizium anisopliae</i> sensu lato 4596	HY280 <i>Metarhizium anisopliae</i> sensu lato 4295	HY71 <i>Metarhizium anisopliae</i> sensu lato 4332
HY241 <i>Metarhizium anisopliae</i> sensu lato 4351	HY282 <i>Metarhizium anisopliae</i> sensu lato 4648	HY73 <i>Metarhizium anisopliae</i> sensu lato 4329
HY242 <i>Metarhizium anisopliae</i> sensu lato 4350	HY33 <i>Metarhizium anisopliae</i> sensu lato 4293	HY74 <i>Metarhizium anisopliae</i> sensu lato 4331
HY244 <i>Metarhizium anisopliae</i> sensu lato 4352	HY34 <i>Metarhizium anisopliae</i> sensu lato 4311	HY75 <i>Metarhizium anisopliae</i> sensu lato 4323
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HY248 <i>Metarhizium anisopliae</i> sensu lato 4759	HY37 <i>Metarhizium anisopliae</i> sensu lato 4312	HY78 <i>Metarhizium anisopliae</i> sensu lato 4324
HY249 <i>Metarhizium anisopliae</i> sensu lato 4664	HY38 <i>Metarhizium anisopliae</i> sensu lato 4308	HY79 <i>Metarhizium frigidum</i> 4294
HY250 <i>Metarhizium anisopliae</i> sensu lato 4676	HY39 <i>Metarhizium anisopliae</i> sensu lato 4310	HY8 Metarhizium anisopliae sensu lato 4747
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HY252 <i>Metarhizium anisopliae</i> sensu lato 4640	HY41 <i>Metarhizium anisopliae</i> sensu lato 4318	HY82 <i>Metarhizium guizhouense</i> 4303
HY253 <i>Metarhizium flavoviride</i> 4304	HY42 <i>Metarhizium anisopliae</i> sensu lato 4317	HY83 <i>Metarhizium anisopliae</i> sensu lato 4736
HY254 <i>Metarhizium anisopliae</i> sensu lato 4626	HY43 <i>Metarhizium anisopliae</i> sensu lato 4319	HY85 <i>Metarhizium anisopliae</i> sensu lato 4288
HY255 <i>Metarhizium anisopliae</i> sensu lato 4687	HY44 <i>Metarhizium anisopliae</i> sensu lato 4313	HY86 <i>Metarhizium anisopliae</i> sensu lato 4306
HY256 <i>Metarhizium anisopliae</i> sensu lato 4663	HY45 <i>Metarhizium anisopliae</i> sensu lato 4315	HY87 <i>Metarhizium anisopliae</i> sensu lato 4328
HY257 <i>Metarhizium anisopliae</i> sensu lato 4322	HY46 <i>Metarhizium anisopliae</i> sensu lato 4632	HY88 <i>Metarhizium anisopliae</i> sensu lato 4639
HY258 <i>Metarhizium anisopliae</i> sensu lato 4585	HY48 <i>Metarhizium anisopliae</i> sensu lato 4586	HY89 <i>Metarhizium anisopliae</i> sensu lato 4609
HY259 <i>Metarhizium anisopliae</i> sensu lato 4576	HY53 <i>Metarhizium anisopliae</i> sensu lato 4284	HY9 <i>Metarhizium anisopliae</i> sensu lato 4746
HY260 <i>Metarhizium anisopliae</i> sensu lato 4760	HY56 <i>Metarhizium anisopliae</i> sensu lato 4641	HY90 <i>Metarhizium anisopliae</i> sensu lato 4647
HY261 <i>Metarhizium anisopliae</i> sensu lato 4673	HY57 <i>Metarhizium anisopliae</i> sensu lato 4740	HY91 <i>Metarhizium anisopliae</i> sensu lato 4633
HY262 <i>Metarhizium anisopliae</i> sensu lato 4618	HY58 <i>Metarhizium anisopliae</i> sensu lato 4631	HY92 <i>Metarhizium anisopliae</i> sensu lato 4735
HY263 <i>Metarhizium anisopliae</i> sensu lato 4654	HY59 <i>Metarhizium anisopliae</i> sensu lato 4591	HY93 <i>Metarhizium anisopliae</i> sensu lato 4734
HY264 <i>Metarhizium anisopliae</i> sensu lato 4761	HY6 <i>Metarhizium anisopliae</i> sensu lato 4749	HY94 <i>Metarhizium anisopliae</i> sensu lato 4657
HY265 <i>Metarhizium anisopliae</i> sensu lato 4762	HY61 <i>Metarhizium robertsii</i> 4739	HY95 <i>Metarhizium anisopliae</i> sensu lato 4637
HY266 <i>Metarhizium anisopliae</i> sensu lato 4763	HY62 <i>Metarhizium anisopliae</i> sensu lato 4738	HY95 <i>Metarhizium anisopliae</i> sensu lato 4593
HY268 <i>Metarhizium anisopliae</i> sensu lato 4560	HY63 <i>Metarhizium anisopliae</i> sensu lato 4595	HY96 <i>Metarhizium anisopliae</i> sensu lato 4650
HY269 <i>Metarhizium anisopliae</i> sensu lato 4764	HY65 <i>Metarhizium anisopliae</i> sensu lato 4638	HY97 <i>Metarhizium anisopliae</i> sensu lato 4733
HY271 <i>Metarhizium anisopliae</i> sensu lato 4682	HY66 <i>Metarhizium anisopliae</i> sensu lato 4737	HY97 <i>Metarhizium anisopliae</i> sensu lato 4565
HY272 <i>Metarhizium frigidum</i> 4765	HY67 <i>Metarhizium anisopliae</i> sensu lato 4307	HY99 <i>Metarhizium anisopliae</i> sensu lato 4732
HY273 <i>Metarhizium anisopliae</i> sensu lato 4766	HY68 <i>Metarhizium anisopliae</i> sensu lato 4617	Zou, Xiao
HY274 <i>Metarhizium anisopliae</i> sensu lato 4590	HY69 <i>Metarhizium anisopliae</i> sensu lato 4327	1 <i>Nomuraea atypicola</i> 9594
HY275 <i>Metarhizium anisopliae</i> sensu lato 4577		

23	Metarhizium robertsii	820	Metarhizium brunneum	968	Metarhizium anisopliae sensu lato
135	Nomuraea rileyi	844	Metarhizium anisopliae sensu lato	977	Metarhizium guizhouense
297	Metarhizium anisopliae var. majus	845	Metarhizium anisopliae sensu lato	978	Metarhizium majus
298	Metarhizium anisopliae var. majus	846	Metarhizium anisopliae sensu lato	988	Metarhizium brunneum
323	Nomuraea rileyi	847	Metarhizium anisopliae sensu lato	1009	Metarhizium pingshaense
324	Metarhizium acridum	848	Metarhizium anisopliae sensu lato	1011	Metarhizium pingshaense
345	Nomuraea rileyi	849	Metarhizium anisopliae sensu lato	1014	Nomuraea rileyi
346	Metarhizium brunneum	850	Metarhizium anisopliae sensu lato	1015	Metarhizium majus
358	Nomuraea rileyi	851	Metarhizium anisopliae sensu lato	1022	Metarhizium anisopliae sensu lato
380	Nomuraea rileyi	852	Metarhizium anisopliae sensu lato	1023	Metarhizium anisopliae sensu lato
435	Metarhizium anisopliae sensu lato	853	Metarhizium anisopliae sensu lato	1024	Metarhizium anisopliae sensu lato
436	Metarhizium pingshaense	854	Metarhizium anisopliae sensu lato	1025	Metarhizium anisopliae sensu lato
437	Metarhizium pingshaense	855	Metarhizium anisopliae sensu lato	1044	Metarhizium anisopliae sensu stricto
438	Metarhizium anisopliae sensu lato	856	Metarhizium anisopliae sensu lato	1045	Metarhizium anisopliae sensu stricto
439	Metarhizium pingshaense	857	Metarhizium anisopliae sensu lato	1046	Metarhizium robertsii
440	Metarhizium anisopliae sensu lato	858	Metarhizium anisopliae sensu lato	1047	Nomuraea rileyi
441	Metarhizium anisopliae sensu lato	859	Metarhizium anisopliae sensu lato	1055	Metarhizium anisopliae sensu lato
442	Metarhizium anisopliae sensu lato	860	Metarhizium anisopliae sensu lato	1056	Metarhizium anisopliae sensu lato
443	Metarhizium pingshaense	861	Metarhizium anisopliae sensu lato	1057	Metarhizium robertsii
444	Metarhizium pingshaense	862	Metarhizium anisopliae sensu lato	1059	Metarhizium anisopliae sensu lato
445	Metarhizium anisopliae sensu lato	863	Metarhizium anisopliae sensu lato	1066	Metarhizium brunneum
446	Metarhizium pingshaense	864	Metarhizium anisopliae sensu lato	1080	Metarhizium anisopliae sensu stricto
455	Metarhizium brunneum	865	Metarhizium anisopliae sensu lato	1083	Metarhizium anisopliae sensu lato
456	Metarhizium anisopliae sensu lato	866	Metarhizium anisopliae sensu lato	1084	Metarhizium anisopliae sensu lato
457	Metarhizium anisopliae sensu lato	867	Metarhizium anisopliae sensu lato	1085	Metarhizium anisopliae sensu lato
472	Metarhizium brunneum	868	Metarhizium anisopliae sensu lato	1086	Metarhizium anisopliae sensu lato
473	Metarhizium majus	869	Metarhizium anisopliae sensu lato	1087	Metarhizium anisopliae sensu lato
481	Nomuraea rileyi	870	Metarhizium anisopliae sensu lato	1088	Metarhizium anisopliae sensu lato
482	Nomuraea rileyi	871	Metarhizium anisopliae sensu lato	1089	Metarhizium anisopliae sensu lato
483	Nomuraea rileyi	872	Metarhizium anisopliae sensu lato	1090	Metarhizium anisopliae sensu lato
485	Metarhizium anisopliae sensu lato	873	Metarhizium anisopliae sensu lato	1091	Metarhizium anisopliae sensu lato
486	Metarhizium anisopliae sensu lato	874	Metarhizium anisopliae sensu lato	1092	Metarhizium guizhouense
487	Metarhizium anisopliae sensu lato	875	Metarhizium anisopliae sensu lato	1093	Metarhizium guizhouense
488	Metarhizium anisopliae sensu lato	889	Metarhizium anisopliae sensu lato	1094	Metarhizium anisopliae sensu lato
489	Metarhizium anisopliae sensu lato	890	Metarhizium anisopliae sensu lato	1095	Metarhizium brunneum
538	Metarhizium pingshaense	891	Metarhizium anisopliae sensu lato	1097	Metarhizium anisopliae sensu lato
539	Nomuraea rileyi	892	Metarhizium anisopliae sensu lato	1099	Metarhizium flavoviride var. minus
540	Nomuraea rileyi	893	Metarhizium anisopliae sensu lato	1112	Metarhizium brunneum
543	Metarhizium anisopliae sensu lato	894	Metarhizium anisopliae sensu lato	1116	Metarhizium brunneum
549	Metarhizium anisopliae sensu lato	895	Metarhizium anisopliae sensu lato	1120	Metarhizium robertsii
550	Metarhizium anisopliae sensu lato	896	Metarhizium anisopliae sensu lato	1184	Metarhizium flavoviride var. flavoviride■
551	Metarhizium anisopliae sensu lato	897	Metarhizium anisopliae sensu lato	1187	Metarhizium brunneum
552	Metarhizium pingshaense	898	Metarhizium anisopliae sensu lato	1271	Metarhizium flavoviride var. minus
558	Nomuraea rileyi	901	Metarhizium anisopliae sensu lato	1272	Metarhizium flavoviride var. minus
576	Metarhizium pingshaense	902	Metarhizium anisopliae sensu lato	1273	Metarhizium flavoviride var. minus
587	Metarhizium anisopliae sensu stricto	903	Metarhizium anisopliae sensu lato	1274	Metarhizium flavoviride var. minus
588	Metarhizium pingshaense	904	Metarhizium anisopliae sensu lato	1275	Metarhizium flavoviride var. minus
589	Metarhizium anisopliae sensu lato	905	Metarhizium anisopliae sensu lato	1276	Metarhizium flavoviride var. minus
683	Metarhizium guizhouense	906	Metarhizium anisopliae sensu lato	1277	Metarhizium flavoviride var. minus
703	Metarhizium guizhouense	907	Metarhizium anisopliae sensu lato	1278	Metarhizium brunneum
711	Nomuraea rileyi	908	Metarhizium anisopliae sensu lato	1279	Metarhizium flavoviride var. minus
712	Metarhizium pingshaense	909	Metarhizium anisopliae sensu lato	1280	Metarhizium anisopliae sensu lato
724	Metarhizium robertsii	910	Metarhizium anisopliae sensu lato	1281	Metarhizium anisopliae sensu lato
725	Metarhizium anisopliae sensu lato	911	Metarhizium anisopliae sensu lato	1282	Metarhizium anisopliae sensu lato
727	Metarhizium robertsii	912	Metarhizium anisopliae sensu lato	1283	Metarhizium flavoviride var. minus
728	Metarhizium anisopliae sensu lato	913	Metarhizium anisopliae sensu lato	1284	Metarhizium anisopliae sensu lato
729	Metarhizium anisopliae sensu lato	921	Metarhizium anisopliae sensu lato	1285	Metarhizium anisopliae sensu lato
740	Nomuraea rileyi	922	Metarhizium anisopliae sensu lato	1286	Metarhizium anisopliae sensu lato
755	Metarhizium anisopliae sensu stricto	925	Metarhizium anisopliae sensu lato	1287	Metarhizium flavoviride var. minus
759	Metarhizium anisopliae sensu lato	929	Metarhizium anisopliae sensu lato	1288	Metarhizium flavoviride var. minus
760	Metarhizium anisopliae sensu lato	932	Metarhizium anisopliae sensu lato	1289	Metarhizium flavoviride var. minus
762	Nomuraea rileyi	935	Nomuraea rileyi	1290	Metarhizium anisopliae sensu lato
782	Metarhizium anisopliae sensu lato	936	Nomuraea rileyi	1291	Metarhizium flavoviride var. minus
794	Metarhizium anisopliae sensu lato	939	Metarhizium anisopliae sensu lato	1292	Metarhizium flavoviride var. minus
797	Metarhizium robertsii	954	Metarhizium anisopliae sensu lato	1293	Metarhizium flavoviride var. minus
798	Metarhizium anisopliae sensu stricto	955	Metarhizium anisopliae sensu lato	1294	Metarhizium flavoviride var. minus
808	Metarhizium anisopliae sensu lato	960	Metarhizium anisopliae sensu lato	1295	Metarhizium flavoviride var. minus
817	Metarhizium brunneum	965	Metarhizium anisopliae sensu lato	1296	Metarhizium flavoviride var. minus
818	Metarhizium anisopliae sensu lato	966	Metarhizium anisopliae sensu lato	1297	Metarhizium flavoviride var. minus
819	Metarhizium guizhouense	967	Metarhizium anisopliae sensu lato	1298	Metarhizium robertsii

1299	Metarhizium anisopliae sensu lato	1894	Metarhizium anisopliae sensu stricto	2206	Nomuraea rileyi
1300	Metarhizium anisopliae sensu lato	1895	Metarhizium anisopliae sensu lato	2207	Nomuraea rileyi
1301	Metarhizium flavoviride var. minus	1896	Metarhizium anisopliae sensu lato	2210	Metarhizium brunneum
1302	Metarhizium flavoviride var. minus	1897	Metarhizium robertsii	2211	Metarhizium anisopliae sensu lato
1303	Metarhizium flavoviride var. minus	1898	Metarhizium anisopliae sensu lato	2212	Metarhizium anisopliae sensu lato
1304	Metarhizium anisopliae sensu lato	1899	Metarhizium anisopliae sensu lato	2213	Metarhizium anisopliae sensu lato
1305	Metarhizium flavoviride var. minus	1900	Metarhizium anisopliae sensu stricto	2214	Metarhizium anisopliae sensu lato
1373	Metarhizium anisopliae sensu lato	1901	Metarhizium anisopliae sensu lato	2223	Metarhizium anisopliae sensu stricto
1374	Metarhizium anisopliae sensu lato	1902	Metarhizium anisopliae sensu lato	2224	Metarhizium brunneum
1375	Metarhizium anisopliae sensu lato	1903	Metarhizium anisopliae sensu lato	2230	Metarhizium anisopliae sensu lato
1376	Metarhizium anisopliae sensu lato	1904	Nomuraea atypicola	2231	Metarhizium pingshaense
1377	Metarhizium anisopliae sensu lato	1910	Metarhizium robertsii	2339	Metarhizium flavoviride var. minus
1378	Metarhizium anisopliae sensu lato	1911	Metarhizium anisopliae sensu lato	2341	Metarhizium anisopliae sensu lato
1379	Metarhizium anisopliae sensu lato	1912	Metarhizium anisopliae sensu stricto	2342	Metarhizium anisopliae sensu lato
1380	Metarhizium anisopliae sensu lato	1914	Metarhizium majus	2343	Metarhizium anisopliae sensu lato
1382	Metarhizium anisopliae sensu lato	1941	Metarhizium album	2345	Nomuraea rileyi
1383	Metarhizium anisopliae var. majus	1942	Metarhizium album	2353	Metarhizium sp.
1386	Metarhizium anisopliae sensu lato	1943	Metarhizium album	2390	Nomuraea rileyi
1387	Metarhizium anisopliae sensu lato	1945	Metarhizium flavoviride var. minus	2395	Nomuraea rileyi
1388	Metarhizium anisopliae sensu lato	1946	Metarhizium majus	2413	Nomuraea sp.
1432	Metarhizium anisopliae sensu lato	1950	Nomuraea rileyi	2421	Metarhizium anisopliae sensu stricto
1448	Metarhizium pingshaense	1952	Metarhizium robertsii	2424	Metarhizium anisopliae sensu lato
1449	Metarhizium anisopliae sensu lato	1958	Metarhizium anisopliae sensu lato	2465	Nomuraea rileyi
1489	Metarhizium anisopliae sensu stricto	1968	Metarhizium robertsii	2466	Nomuraea rileyi
1490	Metarhizium anisopliae sensu lato	1970	Metarhizium anisopliae sensu lato	2467	Nomuraea anemonoides
1545	Metarhizium pingshaense	1972	Nomuraea rileyi	2469	Metarhizium robertsii
1546	Metarhizium flavoviride var. minus	1989	Metarhizium anisopliae sensu lato	2492	Nomuraea rileyi
1547	Metarhizium flavoviride var. minus	2013	Nomuraea rileyi	2510	Metarhizium anisopliae sensu lato
1548	Metarhizium anisopliae sensu lato	2023	Metarhizium flavoviride var. minus	2513	Metarhizium anisopliae sensu lato
1670	Nomuraea rileyi	2024	Metarhizium flavoviride	2514	Metarhizium robertsii
1671	Nomuraea rileyi	2025	Metarhizium flavoviride var. flavoviride	2517	Metarhizium anisopliae sensu stricto
1724	Metarhizium pingshaense	2026	Metarhizium flavoviride	2518	Metarhizium anisopliae sensu stricto
1725	Metarhizium pingshaense	2037	Metarhizium flavoviride var. minus	2521	Metarhizium anisopliae sensu lato
1726	Metarhizium anisopliae sensu lato	2038	Metarhizium anisopliae sensu lato	2547	Metarhizium robertsii
1727	Metarhizium anisopliae sensu lato	2039	Metarhizium anisopliae sensu lato	2548	Metarhizium anisopliae sensu lato
1728	Metarhizium anisopliae sensu lato	2042	Metarhizium brunneum	2560	Metarhizium robertsii
1729	Metarhizium pingshaense	2043	Metarhizium pingshaense	2561	Metarhizium robertsii
1744	Metarhizium anisopliae sensu lato	2076	Metarhizium anisopliae sensu lato	2574	Metarhizium anisopliae sensu lato
1745	Metarhizium anisopliae sensu lato	2077	Metarhizium anisopliae sensu lato	2575	Metarhizium robertsii
1756	Nomuraea rileyi	2080	Metarhizium anisopliae sensu stricto	2596	Metarhizium globosum
1757	Nomuraea rileyi	2081	Metarhizium album	2627	Metarhizium anisopliae sensu stricto
1758	Nomuraea rileyi	2082	Metarhizium album	2628	Metarhizium anisopliae sensu lato
1759	Nomuraea rileyi	2104	Nomuraea rileyi	2634	Metarhizium anisopliae sensu lato
1760	Nomuraea rileyi	2105	Metarhizium anisopliae sensu lato	2635	Metarhizium anisopliae sensu lato
1761	Nomuraea rileyi	2106	Metarhizium pingshaense	2735	Metarhizium pingshaense
1762	Nomuraea rileyi	2107	Metarhizium brunneum	2742	Metarhizium brunneum
1763	Metarhizium flavoviride var. minus	2134	Metarhizium robertsii	2764	Metarhizium brunneum
1764	Metarhizium flavoviride var. minus	2135	Metarhizium anisopliae sensu lato	2786	Metarhizium anisopliae sensu stricto
1765	Metarhizium flavoviride var. minus	2136	Metarhizium anisopliae sensu lato	2805	Metarhizium anisopliae sensu lato
1766	Metarhizium flavoviride var. minus	2137	Metarhizium anisopliae sensu lato	2806	Metarhizium anisopliae sensu lato
1767	Metarhizium flavoviride var. minus	2138	Metarhizium anisopliae sensu lato	2808	Metarhizium majus
1768	Metarhizium flavoviride var. minus	2139	Metarhizium anisopliae sensu lato	2809	Metarhizium pingshaense
1769	Metarhizium flavoviride var. minus	2140	Metarhizium guizhouense	2941	Metarhizium anisopliae sensu lato
1770	Metarhizium flavoviride var. minus	2151	Metarhizium anisopliae var. majus	2948	Metarhizium flavoviride 'Type E'
1771	Metarhizium flavoviride var. minus	2153	Metarhizium anisopliae sensu stricto	2949	Metarhizium anisopliae sensu lato
1772	Metarhizium flavoviride var. minus	2156	Metarhizium anisopliae sensu lato	2951	Metarhizium anisopliae sensu lato
1773	Metarhizium flavoviride var. minus	2162	Metarhizium pingshaense	2974	Metarhizium brunneum
1823	Metarhizium anisopliae sensu lato	2163	Metarhizium anisopliae sensu lato	2981	Metarhizium robertsii
1840	Metarhizium album	2165	Metarhizium anisopliae sensu lato	2982	Metarhizium robertsii
1858	Metarhizium majus	2166	Metarhizium anisopliae sensu lato	3043	Metarhizium robertsii
1859	Metarhizium majus	2167	Metarhizium anisopliae sensu lato	3044	Metarhizium pingshaense
1878	Metarhizium robertsii	2174	Nomuraea rileyi	3045	Metarhizium brunneum
1879	Nomuraea rileyi	2176	Metarhizium album	3056	Metarhizium anisopliae sensu lato
1882	Metarhizium anisopliae sensu lato	2178	Metarhizium album	3057	Metarhizium anisopliae sensu lato
1883	Metarhizium anisopliae sensu lato	2179	Metarhizium album	3064	Metarhizium anisopliae sensu lato
1885	Metarhizium anisopliae sensu lato	2201	Nomuraea rileyi	3108	Metarhizium robertsii
1890	Metarhizium anisopliae sensu lato	2202	Nomuraea rileyi	3127	Metarhizium anisopliae sensu lato
1891	Metarhizium anisopliae sensu lato	2203	Nomuraea rileyi	3145	Metarhizium anisopliae var. majus
1892	Metarhizium anisopliae sensu lato	2204	Nomuraea rileyi	3146	Metarhizium anisopliae sensu lato
1893	Nomuraea rileyi	2205	Nomuraea rileyi	3147	Metarhizium anisopliae sensu lato

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4908	Metarhizium anisopliae sensu lato	6237	Metarhizium anisopliae sensu lato	6700	Metarhizium anisopliae sensu lato
4919	Metarhizium robertsii	6238	Metarhizium guizhouense	6731	Nomuraea rileyi
4925	Metarhizium anisopliae sensu lato	6239	Nomuraea rileyi	6732	Nomuraea rileyi
4926	Metarhizium anisopliae sensu lato	6317	Metarhizium anisopliae sensu stricto	6733	Nomuraea rileyi
4927	Metarhizium anisopliae sensu lato	6318	Metarhizium anisopliae sensu stricto	6734	Nomuraea rileyi
4928	Metarhizium anisopliae sensu lato	6319	Metarhizium anisopliae sensu lato	6735	Nomuraea rileyi
4929	Metarhizium anisopliae sensu lato	6321	Metarhizium anisopliae sensu lato	6736	Nomuraea rileyi
4930	Metarhizium anisopliae sensu lato	6322	Metarhizium anisopliae sensu lato	6737	Nomuraea rileyi
4997	Metarhizium sp.	6323	Metarhizium anisopliae sensu lato	6738	Nomuraea rileyi
4998	Metarhizium sp.	6324	Metarhizium anisopliae sensu lato	6739	Nomuraea rileyi
4999	Metarhizium sp.	6326	Metarhizium anisopliae sensu lato	6740	Nomuraea rileyi
5000	Metarhizium sp.	6342	Metarhizium anisopliae sensu lato	6741	Nomuraea rileyi
5001	Metarhizium sp.	6343	Metarhizium anisopliae sensu lato	6742	Nomuraea rileyi
5076	Metarhizium sp.	6345	Metarhizium anisopliae sensu lato	6743	Nomuraea rileyi
5077	Metarhizium sp.	6346	Metarhizium anisopliae sensu lato	6744	Nomuraea rileyi
5139	Metarhizium sp.	6347	Metarhizium anisopliae sensu stricto	6745	Nomuraea rileyi
5149	Metarhizium robertsii	6356	Metarhizium anisopliae sensu lato	6746	Nomuraea rileyi
5161	Metarhizium anisopliae sensu lato	6360	Metarhizium anisopliae sensu lato	6747	Nomuraea rileyi
5197	Metarhizium pingshaense	6388	Metarhizium anisopliae sensu lato	6748	Nomuraea rileyi
5198	Metarhizium brunneum	6389	Metarhizium anisopliae sensu lato	6749	Nomuraea rileyi
5206	Nomuraea rileyi	6392	Metarhizium brunneum	6750	Metarhizium taii
5207	Nomuraea rileyi	6413	Metarhizium sp.	6751	Metarhizium taii
5208	Nomuraea rileyi	6414	Metarhizium anisopliae sensu lato	6752	Metarhizium taii
5209	Nomuraea rileyi	6415	Metarhizium anisopliae sensu lato	6753	Metarhizium taii
5210	Nomuraea rileyi	6416	Metarhizium flavoviride	6754	Metarhizium taii
5211	Nomuraea rileyi	6417	Metarhizium anisopliae sensu lato	6755	Metarhizium robertsii
5212	Nomuraea rileyi	6421	Metarhizium acridum	6756	Metarhizium anisopliae sensu lato
5369	Metarhizium anisopliae sensu lato	6457	Metarhizium anisopliae sensu lato	6757	Metarhizium anisopliae sensu lato
5469	Metarhizium anisopliae sensu lato	6468	Metarhizium anisopliae sensu lato	6758	Metarhizium anisopliae sensu lato
5471	Metarhizium anisopliae sensu stricto	6472	Metarhizium robertsii	6759	Metarhizium anisopliae sensu lato
5513	Metarhizium anisopliae sensu lato	6474	Metarhizium brunneum	6760	Metarhizium anisopliae sensu lato
5514	Metarhizium anisopliae sensu lato	6475	Metarhizium anisopliae sensu lato	6761	Metarhizium anisopliae sensu lato
5515	Metarhizium anisopliae sensu lato	6476	Metarhizium robertsii	6762	Metarhizium anisopliae sensu lato
5516	Metarhizium anisopliae sensu lato	6477	Metarhizium brunneum	6763	Metarhizium anisopliae sensu lato
5517	Metarhizium anisopliae sensu lato	6546	Metarhizium anisopliae sensu stricto	6764	Nomuraea rileyi
5518	Metarhizium anisopliae sensu lato	6549	Metarhizium anisopliae sensu lato	6765	Nomuraea rileyi
5519	Metarhizium anisopliae sensu lato	6550	Metarhizium anisopliae var. anisopliae	6766	Nomuraea rileyi
5520	Metarhizium anisopliae sensu lato	6551	Metarhizium anisopliae sensu lato	6767	Nomuraea rileyi
5521	Metarhizium anisopliae sensu lato	6558	Metarhizium anisopliae sensu lato	6768	Nomuraea rileyi
5554	Metarhizium anisopliae sensu lato	6569	Metarhizium flavoviride var. pemphigum	6769	Nomuraea rileyi
5555	Metarhizium anisopliae sensu lato	6570	Metarhizium anisopliae sensu lato	6770	Nomuraea rileyi
5556	Metarhizium anisopliae sensu lato	6592	Metarhizium acridum	6771	Nomuraea rileyi
5624	Metarhizium anisopliae sensu lato	6593	Metarhizium flavoviride var. minus	6772	Nomuraea rileyi
5625	Metarhizium brunneum	6594	Metarhizium flavoviride var. minus	6773	Nomuraea rileyi
5626	Metarhizium brunneum	6595	Metarhizium flavoviride var. minus	6774	Nomuraea rileyi
5628	Metarhizium anisopliae sensu lato	6596	Metarhizium flavoviride var. minus	6775	Nomuraea rileyi
5714	Metarhizium guizhouense	6597	Metarhizium acridum	6776	Nomuraea rileyi
5715	Metarhizium anisopliae sensu lato	6598	Metarhizium acridum	6777	Nomuraea rileyi
5716	Metarhizium anisopliae sensu lato	6599	Metarhizium flavoviride var. minus	6778	Nomuraea rileyi
5717	Metarhizium anisopliae sensu lato	6600	Metarhizium acridum	6779	Nomuraea rileyi
5734	Metarhizium anisopliae var. acridum	6601	Metarhizium flavoviride var. minus	6780	Nomuraea rileyi
5735	Metarhizium acridum	6645	Nomuraea rileyi	6781	Nomuraea rileyi
5736	Metarhizium acridum	6670	Metarhizium anisopliae sensu lato	6782	Nomuraea rileyi
5746	Metarhizium anisopliae sensu lato	6671	Metarhizium anisopliae sensu lato	6783	Nomuraea rileyi
5747	Metarhizium acridum	6672	Metarhizium anisopliae sensu lato	6784	Nomuraea rileyi
5748	Metarhizium acridum	6673	Metarhizium anisopliae sensu lato	6785	Nomuraea rileyi
5749	Metarhizium anisopliae sensu lato	6674	Metarhizium anisopliae sensu lato	6786	Nomuraea rileyi
5750	Metarhizium acridum	6675	Metarhizium anisopliae sensu lato	6787	Nomuraea rileyi
5751	Metarhizium brunneum	6677	Metarhizium anisopliae sensu lato	6829	Metarhizium anisopliae sensu lato
5752	Metarhizium anisopliae sensu lato	6678	Metarhizium anisopliae sensu lato	6830	Metarhizium anisopliae sensu lato
5837	Metarhizium anisopliae sensu lato	6679	Metarhizium anisopliae sensu lato	6831	Metarhizium anisopliae sensu lato
5841	Metarhizium anisopliae sensu lato	6680	Metarhizium anisopliae sensu lato	6832	Metarhizium anisopliae sensu lato
5842	Metarhizium anisopliae sensu lato	6682	Metarhizium anisopliae sensu lato	6833	Metarhizium anisopliae sensu lato
5848	Metarhizium anisopliae sensu lato	6683	Metarhizium anisopliae sensu lato	6834	Metarhizium anisopliae sensu lato
5850	Metarhizium anisopliae sensu lato	6684	Metarhizium anisopliae sensu lato	6835	Metarhizium anisopliae sensu lato
5851	Metarhizium anisopliae sensu lato	6685	Metarhizium anisopliae sensu lato	6836	Metarhizium anisopliae sensu lato
5873	Metarhizium robertsii	6694	Metarhizium anisopliae sensu lato	6837	Metarhizium anisopliae sensu lato
6120	Metarhizium brunneum	6698	Metarhizium anisopliae sensu lato	6838	Metarhizium anisopliae sensu lato
6167	Metarhizium anisopliae sensu lato			6839	Metarhizium anisopliae sensu lato
6236	Metarhizium anisopliae sensu lato			6840	Metarhizium anisopliae sensu lato

6841	Metarhizium robertsii	7007	Metarhizium anisopliae sensu lato	7448	Metarhizium frigidum
6842	Metarhizium robertsii	7008	Metarhizium anisopliae sensu lato	7449	Metarhizium robertsii
6843	Metarhizium robertsii	7009	Metarhizium anisopliae sensu lato	7450	Metarhizium anisopliae sensu stricto
6844	Metarhizium robertsii	7014	Metarhizium anisopliae sensu lato	7451	Metarhizium anisopliae sensu lato
6845	Metarhizium robertsii	7015	Metarhizium anisopliae sensu lato	7452	Metarhizium anisopliae sensu lato
6846	Metarhizium robertsii	7016	Metarhizium anisopliae sensu lato	7453	Metarhizium anisopliae var. lepidotae
6847	Metarhizium robertsii	7017	Metarhizium anisopliae sensu lato	7474	Metarhizium anisopliae sensu lato
6848	Metarhizium robertsii	7018	Metarhizium anisopliae sensu lato	7475	Metarhizium anisopliae sensu lato
6849	Metarhizium anisopliae sensu lato	7019	Metarhizium anisopliae sensu lato	7476	Metarhizium anisopliae sensu lato
6850	Metarhizium anisopliae sensu lato	7020	Metarhizium anisopliae sensu lato	7479	Nomuraea rileyi
6851	Metarhizium acridum	7021	Metarhizium anisopliae sensu lato	7480	Nomuraea rileyi
6852	Metarhizium acridum	7022	Metarhizium anisopliae sensu lato	7481	Nomuraea rileyi
6853	Metarhizium acridum	7023	Metarhizium anisopliae sensu lato	7482	Nomuraea rileyi
6854	Metarhizium acridum	7024	Metarhizium anisopliae sensu lato	7483	Nomuraea rileyi
6855	Metarhizium acridum	7025	Metarhizium anisopliae sensu lato	7484	Nomuraea rileyi
6856	Metarhizium acridum	7026	Metarhizium anisopliae sensu lato	7485	Metarhizium anisopliae sensu lato
6857	Metarhizium acridum	7052	Nomuraea rileyi	7486	Metarhizium acridum
6858	Metarhizium acridum	7053	Nomuraea rileyi	7487	Metarhizium anisopliae sensu stricto
6859	Metarhizium acridum	7054	Nomuraea rileyi	7488	Metarhizium lepidiotae
6860	Metarhizium anisopliae sensu lato	7055	Nomuraea rileyi	7489	Metarhizium anisopliae sensu lato
6861	Metarhizium anisopliae sensu lato	7056	Nomuraea rileyi	7490	Metarhizium anisopliae sensu lato
6862	Metarhizium anisopliae sensu lato	7059	Metarhizium anisopliae sensu lato	7491	Metarhizium flavoviride var. pemphigum
6863	Metarhizium anisopliae sensu lato	7130	Nomuraea atypicola	7492	Metarhizium anisopliae sensu lato
6864	Metarhizium robertsii	7148	Nomuraea rileyi	7493	Metarhizium sp.
6865	Metarhizium robertsii	7149	Nomuraea rileyi	7494	Metarhizium anisopliae sensu lato
6866	Nomuraea rileyi	7150	Nomuraea rileyi	7495	Metarhizium sp.
6867	Nomuraea rileyi	7151	Nomuraea rileyi	7496	Metarhizium anisopliae sensu lato
6868	Nomuraea rileyi	7180	Metarhizium anisopliae sensu lato	7497	Metarhizium sp.
6869	Nomuraea rileyi	7231	Nomuraea atypicola	7498	Metarhizium anisopliae sensu lato
6870	Nomuraea rileyi	7234	Metarhizium anisopliae sensu lato	7499	Metarhizium anisopliae sensu lato
6871	Nomuraea rileyi	7348	Nomuraea atypicola	7500	Metarhizium anisopliae sensu lato
6872	Nomuraea rileyi	7389	Metarhizium sp.	7501	Metarhizium robertsii
6873	Nomuraea rileyi	7410	Metarhizium pingshaense	7502	Metarhizium guizhouense
6874	Nomuraea rileyi	7411	Metarhizium anisopliae sensu lato	7503	Metarhizium anisopliae sensu lato
6875	Nomuraea rileyi	7412	Metarhizium lepidiotae	7504	Metarhizium anisopliae sensu lato
6876	Nomuraea rileyi	7413	Metarhizium robertsii	7505	Metarhizium majus
6877	Nomuraea rileyi	7414	Metarhizium pingshaense	7506	Metarhizium anisopliae sensu lato
6878	Nomuraea rileyi	7415	Metarhizium pingshaense	7507	Metarhizium guizhouense
6879	Nomuraea rileyi	7416	Metarhizium pingshaense	7522	Metarhizium anisopliae var. acridum
6880	Nomuraea rileyi	7417	Metarhizium pingshaense	7524	Metarhizium anisopliae sensu lato
6881	Nomuraea rileyi	7418	Metarhizium anisopliae sensu stricto	7527	Metarhizium anisopliae sensu lato
6882	Nomuraea rileyi	7419	Metarhizium anisopliae sensu stricto	7529	Metarhizium anisopliae sensu lato
6901	Metarhizium anisopliae sensu lato	7420	Metarhizium guizhouense	7532	Metarhizium anisopliae sensu lato
6909	Metarhizium anisopliae sensu lato	7421	Metarhizium pingshaense	7535	Metarhizium anisopliae sensu lato
6910	Metarhizium anisopliae sensu lato	7422	Metarhizium pingshaense	7536	Metarhizium anisopliae sensu lato
6911	Metarhizium anisopliae sensu lato	7423	Metarhizium anisopliae sensu stricto	7537	Metarhizium anisopliae sensu lato
6926	Nomuraea cylindrospora	7424	Metarhizium robertsii	7538	Metarhizium anisopliae sensu lato
6927	Nomuraea viridulus	7425	Metarhizium pingshaense	7569	Metarhizium anisopliae sensu lato
6930	Metarhizium anisopliae sensu lato	7426	Metarhizium anisopliae sensu stricto	7570	Metarhizium anisopliae sensu lato
6958	Metarhizium anisopliae sensu lato	7427	Metarhizium anisopliae sensu stricto	7571	Metarhizium anisopliae sensu lato
6959	Metarhizium anisopliae sensu lato	7428	Metarhizium anisopliae sensu stricto	7572	Metarhizium anisopliae sensu lato
6960	Metarhizium anisopliae sensu lato	7429	Metarhizium pingshaense	7573	Metarhizium anisopliae sensu lato
6989	Metarhizium anisopliae sensu lato	7430	Metarhizium anisopliae sensu stricto	7612	Metarhizium anisopliae sensu lato
6990	Metarhizium anisopliae sensu lato	7431	Metarhizium pingshaense	7613	Metarhizium anisopliae sensu lato
6991	Metarhizium anisopliae sensu lato	7432	Metarhizium anisopliae sensu stricto	7614	Metarhizium anisopliae sensu lato
6992	Metarhizium anisopliae sensu lato	7433	Metarhizium brunneum	7615	Metarhizium anisopliae sensu lato
6993	Metarhizium anisopliae sensu lato	7434	Metarhizium brunneum	7643	Metarhizium sp.
6994	Metarhizium anisopliae sensu lato	7435	Metarhizium pingshaense	7644	Metarhizium anisopliae sensu lato
6995	Metarhizium anisopliae sensu lato	7436	Metarhizium frigidum	7645	Metarhizium sp.
6996	Metarhizium anisopliae sensu lato	7437	Metarhizium frigidum	7711	Metarhizium anisopliae sensu lato
6997	Metarhizium anisopliae sensu lato	7438	Metarhizium frigidum	7778	Nomuraea rileyi
6998	Metarhizium anisopliae sensu lato	7439	Metarhizium frigidum	7779	Nomuraea rileyi
6999	Metarhizium anisopliae sensu lato	7440	Metarhizium frigidum	7780	Nomuraea rileyi
7000	Metarhizium anisopliae sensu lato	7441	Metarhizium frigidum	7791	Nomuraea rileyi
7001	Metarhizium anisopliae sensu lato	7442	Metarhizium frigidum	7792	Nomuraea rileyi
7002	Metarhizium anisopliae sensu lato	7443	Metarhizium frigidum	7793	Nomuraea rileyi
7003	Metarhizium anisopliae sensu lato	7444	Metarhizium frigidum	7794	Nomuraea rileyi
7004	Metarhizium anisopliae sensu lato	7445	Metarhizium frigidum	7814	Metarhizium anisopliae sensu lato
7005	Metarhizium anisopliae sensu lato	7446	Metarhizium frigidum		
7006	Metarhizium anisopliae sensu lato	7447	Metarhizium frigidum		

9439	Metarhizium anisopliae sensu lato	9672	Metarhizium sp.
9487	Metarhizium anisopliae	9673	Metarhizium sp.
9488	Metarhizium anisopliae	9674	Metarhizium sp.
9489	Nomuraea rileyi	9675	Metarhizium sp.
9490	Nomuraea rileyi	9676	Metarhizium sp.
9541	Metarhizium anisopliae sensu lato	9677	Metarhizium sp.
9590	Metarhizium anisopliae sensu lato	9678	Metarhizium sp.
9591	Metarhizium anisopliae sensu lato	9679	Metarhizium sp.
9592	Metarhizium acridum	9680	Metarhizium sp.
9593	Metarhizium anisopliae sensu lato	9681	Metarhizium sp.
9594	Nomuraea atypicola	9682	Metarhizium sp.
9607	Metarhizium robertsii	9683	Metarhizium sp.
9608	Metarhizium brunneum	9684	Metarhizium sp.
9612	Metarhizium anisopliae sensu lato	9685	Metarhizium sp.
9613	Metarhizium anisopliae sensu lato	9686	Metarhizium sp.
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9647	Metarhizium sp.	9717	Metarhizium sp.
9648	Metarhizium sp.	9718	Metarhizium sp.
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9811	Metarhizium sp.		

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10094 Metarhizium sp.	10469 <i>Metarhizium anisopliae</i> sensu lato
10095 Metarhizium sp.	
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10126 Metarhizium sp.	
10131 Metarhizium anisopliae sensu lato	
10135 Metarhizium anisopliae sensu lato	
10136 Metarhizium anisopliae sensu lato	
10137 Metarhizium anisopliae sensu lato	
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